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EPA Region 5 Records Ctr.



225853

MAGELLAN
DEVELOPMENT GROUP, LTD

VIA MESSENGER

March 14, 2002

Mr. Fred Micke
USEPA
77 W. Jackson Boulevard
Chicago, IL 60604

RE: Lakeshore East, Chicago, IL

Dear Mr. Micke:

Enclosed please find a copy of the completed Final Report from STS consultants for the above mentioned project. After you have had a chance to look overall the materials and if you have any questions please feel free to give me a call at 312.642.8869 x345. Thank you.

Very truly yours,

MAGELLAN DEVELOPMENT GROUP, LTD.

David J. Carlins
Vice President

Discovering New and Innovative Ways to Live

STS CONSULTANTS, LTD.**Lakeshore East Additional Radiation
Survey Investigation**

Lakeshore East LLC
One West Superior, Suite 200
Chicago, Illinois 60610

STS Project No. 1-32193-ZH
February 8, 2002



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Figure 1 Lakeshore East Site Plan

Figure 2 Boring Location Plan

Figure 3 Stepout Borings and Impacted Soil Locations

Attachments

- Attachment A Test Pit Investigation, Fill Isopach Map
- Attachment B Downhole Gamma Logs
- Attachment C Impacted Soil Locations GPS Station References



Magellan Development Group, Ltd.
STS Project No. 1-32193-ZH
February 8, 2002

LAKESHORE EAST ADDITIONAL RADIATION SURVEY INVESTIGATION

EXECUTIVE SUMMARY

Previous investigations by U.S. Environmental Protection Agency (USEPA) and STS Consultants, Ltd. (STS) have identified radiologically impacted soil. Surface surveys and subsurface investigations which included 35 borings found an estimated 1,000 cubic yards (CY) of impacted soil. An additional 271 borings were drilled for this investigation, covering the thicker fill areas and the former slips. This most recent additional investigation identified an additional 10 to 15% impacted material. The comprehensive explorations of the site, including the surface surveys and subsurface explorations, have found a total of approximately 1,136 CY of impacted material. Recognizing that some additional impacted material may be found beyond that identified and calculated herein, a conservative estimate is reached by doubling the identified volume. This factor of 2 results in an impacted volume estimate of 2,270 CY. Estimating the transport and disposal at \$1,000/CY and \$567,000 for engineering, monitoring, documentation, and closure, these estimates total \$2,837,000.

1.0 INTRODUCTION

The Lakeshore East site is an approximately 26-acre property located at the southwest corner of Wacker Drive and Lake Shore Drive in Chicago, Illinois (the Site). The Site is currently in use as a golf center including a driving range and nine-hole golf course (Figure 1). The Site is being investigated as part of a proposed residential development. Previous investigations by STS Consultants, Ltd. (STS) and others have found evidence of elevated radioactivity at certain locations within the site. The purpose of the investigations described herein is to identify radiologically impacted locations, assess the extent of the radiologically impacted materials, and provide a volume estimate of the impacted materials so as to estimate the potential costs attendant on addressing that material.

2.0 PREVIOUS WORK

Several previous investigations for radiologically impacted soils have been conducted at this site. The U.S. Environmental Protection Agency (USEPA) conducted a walkover survey of a portion of the site and identified two or possibly three locations with elevated gamma radiation (USEPA correspondence dated July 2 and 3, 2001).



STS conducted a walkover survey of the entire property on a 5-meter grid. This survey also identified certain locations exhibiting elevated gamma radiation which were consistent with the USEPA findings. Borings, step-out borings, down-hole gamma surveys, and radiological analysis of soil samples were conducted to document the apparent extent of the radiologically impacted material. The report of that investigation was dated September 19, 2001, with an addendum letter report dated September 28, 2001.

Recently, a review of historical records was conducted accompanied by the excavation of several test pits. That exploration was for the purpose of investigating the thickness of fill materials present on the site that could have been placed after approximately the early 1900s. A summary report of those investigations was prepared and was dated January 8, 2002. A copy of that report is attached, Attachment A.

3.0 PROJECT BACKGROUND

Radiologically impacted locations have been identified on the subject site (USEPA, July 2001; STS, September 2001). The identification of buried radioactive materials from surface surveys is constrained by the presence of soil cover of more than about two feet that can shield radioactive material from detection. Both the developers and proposed lenders raised the question whether some of the golf course grading may have covered impacted soils with sufficient cover to render them non-detectable from the ground surface. In response to that question, an evaluation of the fill thickness was undertaken. The ground surface dating from about 1900 was proposed to be researched to establish the ground surface elevation before the industrial use of the radioactive materials was begun in the site vicinity. This off-site industrial use at a lamp mantle factory operated by Lindsay Light Company is the suspected source of the radioactive soil on site.

The apparent historical site ground surface elevation was evaluated and described in STS's report dated January 2002. Additionally, a fill thickness map was subsequently developed by comparing the 1900 site grade to the current site topography. The resulting fill thickness map identified those areas where the fill was in excess of 2 feet thick and therefore could potentially mask the presence of radioactive soil from detection by a surface survey. A copy of this fill thickness map is included as Attachment A. This report presents the findings of the exploration of those thicker fill areas.

STS's review of historical records also identified the former presence of several shipping slips on the site. The slips extended from the Chicago River south into the site (Slip C), and from Lake Michigan west into the site (Slips D and E). The locations of these former slips are shown on Figure 1. Sanborn Fire



Insurance maps show these slips in 1906. The slips had been filled and were no longer present on site in the 1929 Sanborn maps. This time frame for filling the slips is concurrent with the nearby Lindsay Light manufacturing operations that used the radioactive materials. During this time radioactive by-product materials may have been included in the fill placed in the slips. Additionally, the surface radioactivity survey that found the evidence of several areas of elevated gamma radiation showed those locations to be near or within the outlines of two of the former slips (Slips D and E). As a result of the concurrent timing of the filling of the slips and the operations using the radioactive materials, close proximity of the Lindsay Light operations, and the geographic association between the identified radioactivity and the slips, it was requested that additional exploration of the slips be conducted. This report presents the scope, findings, and conclusions of that investigation.

4.0 SCOPE OF WORK

Three sets of borings were drilled as part of this investigation. These consisted of:

1. Fill thickness borings (100-series) scattered across the site to sample the fill soil that is thicker than two feet
2. Slip grid borings drilled on a 10-meter spacing across the former slips
3. Step-out borings around those grid borings exhibiting elevated radioactivity

Each of these sets of borings is described below.

4.1 Borings Drilled to Assess Fill Thickness

The fill thickness borings were located so as to explore those locations with the thickest fill above the former 1900 ground surface, based on the current topography. A total of 22 (fill thickness) borings were drilled, and are numbered 100 through 122 on Figure 2. The borings ranged from 4 to 10 feet deep and were intended to extend a minimum of 1 foot below the 1900 ground surface elevation. Some of the borings had to be moved to avoid drilling on the golf course greens or to avoid subsurface utilities. All borings were drilled with a nominal 4.25-inch diameter hollow stem auger. A 3-inch diameter PVC casing was installed in each hole, and gamma readings were taken in 6-inch increments. The gamma logging was conducted with a Ludlum 2221 rater-scaler and a 2 x 2 NaI probe. The probe was equipped with a 1-inch thick lead end cap at the lower end of the probe to minimize the influence of adjacent deeper radioactive materials on the gamma readings.

4.2 Borings Drilled in Former Slips

The slip grid borings were drilled on a 10-meter grid over the entire extent of the slips, as the slips were mapped from the 1906 Sanborn maps. (Note the 10-meter grid, equal to approximately 33 feet, is used as a result of the USEPA use of metric measures in their surveying and sampling. Other than the grid spacing, feet and inches are used herein to reference depths and distances.) A total of 215 borings were drilled to examine the slip areas. Borings in Slip C, D, and E are designated with a letter indicating the slip and a number indicating the boring number (i.e., C-1 reflects Slip C, boring 1). The boring layout is shown on Figure 2. Several borings had to be eliminated due to conflicts with utilities crossing the site, and to avoid the golf course greens. Where possible, the borings were moved as opposed to being eliminated. As with the fill thickness borings, these borings were cased with 3-inch PVC pipe and gamma logged in 6-inch increments using a Ludlum 2221 and a 2 x 2 Nal probe with a 1-inch lead end shield.

The slip grid borings extended to a depth of 12 feet. This depth is the limit allowed by the Chicago Board of Underground. The need to identify and delineate deeper radiologically impacted soil is lessened, as the deeper radioactive soil is sufficiently shielded by the overlying soil and groundwater, so as to represent no hazard to the use of the ground above any residual contamination. On a vicinity site where radiologically impacted soil was previously removed, the USEPA allowed impacted soil to remain at a depth of 12 feet and greater, where this soil was below the groundwater table and could not practically be excavated. It was a condition of the allowance that in the event deeper excavation was pursued, the remaining soil would require appropriate management and disposal. In that the groundwater table at the subject site is at approximately 8 to 12 feet deep, impacted soil below the 12 foot depth may be allowed to remain in place. That determination, however, will need to be made by USEPA.

4.3 Step-Out Borings

The third set of borings includes arrays of borings positioned around those grid borings where evidence of elevated gamma radiation was noted in the down-hole logging. These borings, referred to as step-out borings, are for the purpose of identifying the lateral extent of the radiologically impacted soil noted in the grid boring. These step-out borings are designated with a letter post-script to the boring number, i.e. E-568 is in slip E at grid boring location 56 and is step-out boring B. Step-out borings were made in four directions at 2.5-meter (8-foot) increments. No more than two step-outs would be made in any one direction, as this would provide for halving the distance to the next grid boring, approximately. As with the initial grid borings, several of the step-out boring locations conflicted with underground utility locations or would have required drilling on the golf course greens, and were therefore not drilled. The step-out borings were also down-hole logged in 6-inch increments using the same equipment.

The fourth side of the step-outs was constrained by the presence of a golf course green to the south and the limit of the slip in that direction.

Boring D-34 showed elevated readings from 5 to 6.5 feet bgs, with a maximum reading of 108,780 counts in 30 seconds at 5.5 to 6 feet bgs. Step-out borings D-34A, -B, and -C were all below the threshold for contamination. The fourth step-out was constrained by underground utilities to the north. The next boring to the north, D-61, was clean.

Boring D-71 showed elevated readings from 3.5 to 11 feet bgs. The highest reading was 610,257 counts in 30 seconds at 8.5 to 9 feet bgs. Step-out boring D-71D showed elevated readings above the threshold from 7 to 9 feet bgs. The other step-out borings showed some elevated readings above the apparent background gamma counts, but none above the clean-up threshold.

Boring D-77 showed a thin zone from 5 to 6.5 feet bgs with a maximum reading of 37,886 counts in 30 seconds from 5.5 to 6 feet bgs. No other elevated readings were noted in any of the three step-outs completed. The fourth step-out boring, which is to the north, was constrained by the location adjacent to a golf course green. The next two borings in that direction, D-105 and D-106, were clean.

Boring D-94 showed elevated readings from 2 to 4 feet bgs. The highest reading was 69,116 counts per 30 seconds at 3 to 3.5 feet bgs. Step-out boring D-94A had similar readings from 2 to 4.5 feet bgs with a high of 75,027 counts per 30 seconds at 3 to 3.5 feet bgs. Step-out boring D-94D showed elevated readings from 0.5 to 3 feet bgs, with a maximum reading of 197,267 counts per 30 seconds at 1.5 to 2 feet bgs. The surrounding step-out borings D-94B, -C, -E, and -F are all below the clean-up threshold.

Some other borings encountered elevated radioactivity, including E-22, E-25, and D-125. These borings, however are within or immediately adjacent to some of the locations previously found to be radiologically impacted in the surface survey drilling and analytical program, the findings of which were presented in the September 2001 STS report.

The locations of the impacted borings or previously identified impacted areas were surveyed using a global positioning system (GPS). Surveyed (GPS) locations are within 1 meter accuracy. The GPS locations are provided in Attachment C.



6.0 VOLUME CALCULATIONS

Table 1 below, presents a summary of the detections, the thicknesses and depths determined from this investigation. These values are used in the following section to calculate the apparent volume of impacted soil identified at each of the newly discovered locations.

Table 1
Detections of Impacted Soil

Boring No.	Depth Interval (ft bgs)	Gamma Counts (Maximum, 30 seconds)
D-10	4 – 6	115,880 ²
D-34	5 – 6.5	108,780 ¹
D-21	3.5 – 11	610,257 ²
D-21D	7 – 9	87,027 ²
D-77	5 – 6.5	37,886 ²
D-94	2 – 4	69,116 ¹
D-94A	2.5 – 4	75,027 ²
D-94D	0.5 – 3	197,267 ¹
E-56	4.5 – 6.5	129,630 ¹
E-56A	4.5 – 8.5	273,156 ¹

¹ Cut-off for 7.2 pCi/g = 15,894 counts/30 seconds

² Cut-off of 7.2 pCi/g = 18,059 counts/30 seconds

6.1 Assumptions

Certain assumptions were used in calculating the volumes of radiologically impacted soil. In that gamma radiation can penetrate soil for some limited distance, a layer of radioactive material may cause elevated readings some distance above and below the actual radioactive material. This is referred to as "shine". For the purpose of these calculations, "shine" was ignored, which would tend to result in an overestimation of the impacted volume. Additionally, recognizing that excavation will tend to somewhat homogenize the soil, and a larger volume will likely be excavated than the actual limit of radioactivity, the excavated thickness was increased by 6 inches above and 6 inches below the intervals where readings exceeded the cleanup threshold. Finally with regard to thickness, the thickest impacted section in a cluster of borings and step-outs was used, which will also tend to overestimate the actual excavated volume.

A rectangular area was assumed for the material to be removed. The precise shape of the impacted zones is unknown, and the rectangular area is conservative and simplified the calculations.

The horizontal limits were set half way between a clean boring and the last impacted boring. At locations where the limit could not be drilled due to utility or other constraints, the next boring (the one not drilled) was assumed to exceed the cleanup threshold for purposes of estimating volume.

6.2 Calculations

No revision was made to the previously calculated impacted soil volumes. Those calculations used similar assumptions and had a similar boring density at the locations explored. That calculated volume was approximately 1,000 CY. The following table presents the calculated volume based on the observed thickness and areal extent.

Boring No.	Interval with Exceedance of Gamma Values (feet bgs)	Calculated Thickness (6 inches added above and below (feet))	Area of Exceedance ft ²	Calculated Volume ft ³	Cubic Yards
D-10	4 – 6	3	$8 \times 16 = 128 \text{ ft}^2$	384	~ 15
D-34	5 – 6.5	2.5	$8 \times 16 = 128 \text{ ft}^2$	320	~ 12
D-71	3.5 – 11	8.5	$8 \times 16 = 128 \text{ ft}^2$	1,088	~ 40
D-71D	7 – 9				
D-77	5 – 6.5	2.5	$8 \times 16 = 128 \text{ ft}^2$	320	~ 12
D-94	2 – 4	3.5	$16 \times 16 = 256 \text{ ft}^2$	896	~ 33
D-94A	2.5 – 4				
D-94D	0.5 – 3				
E-56	4.5 – 6.5	5	$8 \times 16 = 128 \text{ ft}^2$	640	~ 24
E-56A	4.5 – 8.5				
Total					136 CY

The calculated volume of impacted soil identified is 136 CY for the recently completed investigation. In combination with the previously identified 1,000 CY, an approximate total volume of 1,136 CY is calculated.

In an effort to provide a level of certainty that the estimate of the volume of soil to be removed will not be exceeded, and based upon experience in other removal projects, it is assumed the volume of soil will be greater than the volume calculated from the observed exceedances despite the conservative assumptions used. Further, this estimate recognizes the excavated volume will "bulk" relative to the in place volumes used in the calculations. For the purpose of this estimate, and to be conservative, the volume calculated is estimated to double by the time the limits of impacted soil are reached. This factor

of 2 results in an estimate of 2,270 CY of material that will require removal based upon the investigations completed and referenced herein.

7.0 CONCLUSIONS

Based on the results of this investigation and the investigations previously completed by STS, the radiologically impacted soil appears to be restricted to two localized areas. These areas are within or in close proximity to the former locations of Slips D and E. The volume of impacted soil identified using the data developed, and including several assumptions that would tend to overestimate the amount of impacted soil resulted in an estimate of 1,136 CY. It is anticipated that additional soil, beyond that identified in these previous explorations, will be found and may require removal. In order to provide a conservative estimate of the probable maximum volume of impacted soil to be removed, the volume estimate calculated from the available data was doubled. This results in an estimate of 2,270 CY of impacted soil that may be removed from the site.

The estimated cost for transport and disposal is in the range of \$1,000 per cubic yard, which calculates to approximately \$1,136,000. If this volume and resulting cost is doubled (\$2,270,000) with an estimated 25% cost for engineering, monitoring, documentation, and closure (\$567,000), a conservative total of \$2,837,000 results.

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RECORDED ON THE 14TH DAY OF MARCH, 1979 AS DOCUMENT 24879730), A
DISTANCE OF 176.195 TO THE NORTHEAST CORNER OF SAID PARCEL "A";

THENCE WEST ALONG THE NORTH LINE OF SAID PARCEL "A" AND THE
WESTWARD EXTENSION THEREOF (SAID NORTH LINE BEING A LINE
PERPENDICULAR TO THE LAST DESCRIBED COURSE) A DISTANCE OF 461.333
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THENCE WEST ALONG SAID NORTH LINE OF EAST RANDOLPH STREET, A
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INSTRUMENT RECORDED IN SAID RECORDER'S OFFICE ON MARCH 14, 1979 AS
DOCUMENT 24879730 AND ON THE 12TH DAY OF DECEMBER, 1986 AS
DOCUMENTS 86597180, 86597181 AND 86597182.

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INSTRUMENT RECORDED IN SAID RECORDER'S OFFICE ON THE 12TH DAY OF
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CHECKED BY	RGB	DATE	1/31/02	
APPROVED BY	RGB	DATE	1/31/02	

SITE PLAN
PREVIOUS DETECTIONS AND SLIPS
LAKESHORE EAST
CHICAGO, ILLINOIS



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Easement Agreement
Document 18474522.

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INSTRUMENT RECORDED AS DOCUMENT NUMBER 86597179, AFOPRESDAT)

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THEREOF BEING OF AN EVEN WIDTH OF 66 FEET (COMPRISED THOSE STRIPS
OF LAND DESCRIBED IN THE AMENDATORY LAKE FRONT ORDINANCE PASSED
BY THE CITY COUNCIL OF THE CITY OF CHICAGO ON SEPTEMBER 17, 1965
UNDER THE HEADING AREA RESERVED FOR PUBLIC UTILITIES-DEDICATIONS
AND GRANTS) AS DEDICATED AND CONVEYED TO THE CITY OF CHICAGO BY
INSTRUMENT RECORDED IN SAID RECORDER'S OFFICE ON MARCH 14, 1979 AS
DOCUMENT 24879730 AND ON THE 12TH DAY OF DECEMBER, 1986 AS
DOCUMENTS 86597180, 86597181 AND 86597182.

ALSO EXCEPTING FROM THE ABOVE DESCRIBED LANDS THAT PART OF
NORTH FIELD BOULEVARD AS DEDICATED TO THE CITY OF CHICAGO BY
INSTRUMENT RECORDED IN SAID RECORDER'S OFFICE ON THE 12TH DAY OF

DECEMBER 1986 AS DOCUMENT 86597179.

DRAWN BY	BWS	DATE	1/31/02
CHECKED BY	RGB	DATE	1/31/02
APPROVED BY	RGB	DATE	1/31/02

CADFILE X:\PROJECTS\1\J2191th\GG12191th.FIG.344.wwg
02/05/2002 10:51

SITE PLAN
SOIL BORING LOCATION DIAGRAM
LAKESHORE EAST
CHICAGO, ILLINOIS

Attachment A**Test Pit Investigation, Fill Isopach Map**



January 8, 2002

Mr. David Carlins
Magellan Development Group, Ltd.
One West Superior, Suite 200
Chicago, Illinois 60610

Mr. Sean W. Bezark Esq.
Altheimer and Gray
10 South Wacker Drive
Chicago, Illinois 60606-7482

RE: Test Pit Exploration, 26-Acre Golf Course Site, Southwest Corner of Wacker Drive and Lake Shore Drive, Chicago, Illinois – STS Project No. 1-32193-YH

Dear Mr. Carlins and Mr. Bezark:

In accordance with our proposal of December 6, 2001 (STS Proposal No. 1-14892-PP), STS Consultants, Ltd. (STS) has completed test pit explorations at the above-referenced site. The objective of that work was to identify the approximate ground surface elevation of the site during the time the area was in use as a freight yard in the early part of the 1900s. That information is to be used to specify the areas to be drilled and the depth of exploration for areas where fill soil is present over the ground surface from the early 1900s. The fill thickness is to be determined in order to identify areas where fill thicker than two feet may be present. Former exploration of the site for elevated gamma radiation identified several locations with evidence of elevated radioactivity. That survey, however, would not detect radioactivity beneath a soil cover of more than two feet. Areas with fill greater than two feet will be explored through subsurface survey methods.

TEST PIT EXPLORATION LOCATIONS

Historical records of the site were reviewed to locate potential targets for identifying the former ground surface. Six locations for test pits were proposed, and five were subsequently excavated. The proposed locations were as follows:

- Location A Former railroad tracks adjacent to a scale house and Slip C, in the northwest part of the site.
- Location B Building foundation/floor slab of former cold storage warehouse near west end, south side of Slip D.
- Location C Brick pavement and south edge of Slip D immediately north of cold storage warehouses.
- Location D Paved driveway and former railroad tracks between cold storage warehouses and coal storage yard, north of Slip E. (Note: this location was not excavated due to interferences with irrigation system and location on tee area.)
- Location E Edge of slip at west end of Slip E.
- Location F Railroad tracks and canal edge of projected extension of Slip C.

These test pit locations are based on land use depicted on Sanborn Fire Insurance Maps dated 1906. Additionally, an elevation survey in approximately 1971 of the Illinois Central rail yard was reviewed

by International Engineering Consultants. The rail yard elevation was reported to be approximately 7.1 feet Chicago City Datum (CCD).

Elevations from the test pit exploration results, discussed below, and from the railroad yard map were standardized to CCD elevations before developing the fill thickness map. Figure 1 shows the locations of the test pits on the current site. Figures 2a and 2b show the test pit locations superimposed on the Sanborn Fire Insurance Map from 1906.

TEST PIT FINDINGS

Location A

A thin cinder fill cover 12 to 18 inches thick was found, being somewhat thicker to the west. Timbers were found running north-south, possibly reflecting cribbing for the scale pit. Below the cinders was fine brown sand, apparently natural beach sand. No evidence of rail bed ballast, ties, or rails was noted in the test pit.

The ground surface elevation in this area is approximately 5.4 feet CCD. The base of the cinders was encountered at an elevation of 4.3 feet CCD. The former ground surface was not evident in this test pit.

Location B

The excavation encountered concrete with re-bar immediately below the ground surface. The north edge of the concrete is covered by cinder fill approximately 16 inches thick. Beneath the cinder fill a mixture of fine sand and cinders was encountered. The cinder fill is only a few inches thick over the sand.

The ground surface elevation in this area is 5.9 feet CCD. The bottom of the cinders was encountered at elevations of approximately 5.7 to 5.8 feet CCD. The thick cinder fill and presence of the concrete foundation at the ground surface suggests the former ground elevation was at or above approximately the current elevation of approximately 6.0 feet CCD.

Location C

This test pit was excavated to locate a brick pavement along the south edge of Slip D. Paving bricks were found in the upper 18 inches of the trench. These bricks are not in place but had been torn up and mixed with other materials. Below the material containing the bricks, cinder fill and rubble was encountered. Beneath the cinder fill a layer of what appeared to be an asphalt type pavement over a limestone basecourse was encountered. Pink common brick rubble was encountered beneath the asphalt and limestone.

Ground surface at the location of the test pit is 7.2 feet CCD. The elevation of the asphalt surface is 5.7 feet CCD. The elevation of the brick pavement is thus placed at between 6.0 and 7.0 feet CCD.

Location D

Location was not excavated.

Location E

This test pit was excavated at the west end of Slip E. Approximately 12 inches of mixed cinders and soil was found over a wooden structure. The wood appeared to be timbers rather than ties. The timbers are oriented both north-south and east-west. To the east, the test pit encountered fill soil and debris, with

little or no timber or wood. West of the timbers, the fill consists of more brick and cinders. It appears the timber comprised a floor or decking and a wall at the west end of the slip.

The ground surface elevation at this test pit is 7.1 feet CCD. The elevation of the top of the timbers is approximately 6.3 feet CCD. This indicates the former ground surface was between 6.0 and 7.0 feet CCD at the edge of Slip E.

Location F

This test pit was excavated near a ridge of fill protecting a lighting fixture. The upper approximately two to three feet was rubble fill placed to form the protective ridge. This fill was underlain by cinder fill 12 to 18 inches thick. At that depth a wood timber was encountered. Miscellaneous fill with some staining was evident on the east side of the wood beam. A uniform gray silt fill soil was evident to the west of the timber. The material is interpreted such that the gray silt is fill from the former southern extension of Slip C. The miscellaneous fill material is on the land side of the slip wall.

The current ground surface at this location is 7.1 feet CCD. The elevation of the timber is 3.7 feet CCD. The slip wall is possibly lower as it had been filled in prior to the 1900s and is not representative of the ground elevation at that time. The cinder fill probably represents the former ground surface, but no distinct marker is evident below the more recent fill at an elevation of 4 to 5 feet CCD.

CONCLUSIONS

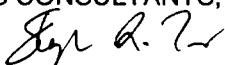
On the basis of these test pits, the best indications of the ground surface elevations suggest an early 1900s elevation of between 6.0 and 7.0 feet CCD. This agrees fairly well with the topography from the railyards in the 1970s with an elevation of approximately 7.0 feet CCD. In order to provide some level of conservatism based on the uncertainty of the data, STS has assumed that the lower elevation of the ground surface was 6.0 feet CCD.

On the basis of the shielding provided by soil over two feet thick, any fill at an elevation of greater than 8.0 feet CCD will be assumed sufficiently thick to potentially mask underlying radioactive material that could not be detected through a surface gamma survey.

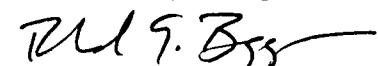
We appreciate being of assistance on this project. Please contact the undersigned with any questions you may have regarding this matter.

Regards,

STS CONSULTANTS, LTD.



Stephen G. Torres, C.P.G.
Science Group Manager



Richard G. Berggreen, C.P.G.
Principal Geologist

cc: James King, LaSalle National Bank
Fred Micke, USEPA

Attachments

TO THE LAST DESCRIBED LINE, SAID NORTHWARD EXTENSION BEING ALSO

TO THE WEST LINE, OF A STRIP OF LAND SIXTY FEET WIDE, DESIGNATED AND

CONVEYED TO SAID CITY OF CHICAGO FOR PUBLIC UTILITIES BY INSTRUMENT

RECORDED ON THE 14TH DAY OF MARCH, 1919 AS DOCUMENT 24879730, A

DISTANCE OF 147.00 FEET

D ALONG SAID EAST LINE

OF THE INTERSECTION

TO SAID EAST LINE OF

> TO SAID EAST LINE OF

FEET, OR TO THE LAST

2 TO THE LAST DESCRIBED

3 TO THE LAST

TO AN INTERSECTION

4 VE, AS SAID EAST VACUUM

CITY OF CHICAGO, IN

1912 AS DOCUMENT

5 THIRTY LINE OF EAST

6 LINES 30 SECONDS TO THE

LAST DESCRIBED

7 INTERSECTION WITH

8 JARD FIELD BOULEVARD,

9 JARD WAS DESIGNATED AND

10 MENT RECORDED ON THE

11 JARD FIELD BOULEVARD,

12 AS DESIGNATED AND

13 INSTRUMENT RECORDED ON

14 86597179 (SAID SOUTHERLY

15 EDITIONS TO THE RIGHT FROM

16 DE MUTH FIELD

17 AN INTERSECTION WITH THE

18 NORTH FIELD BOULEVARD,

19 SAID SOUTHERLY

20 DRAWN BY DOCUMENT

21 MINUTES 40 SECONDS TO

22 SAID EAST LINE OF NORTH

23 TO AN INTERSECTION WITH

THESE BEING ALONG A LINE PARALLEL WITH SAID NORTH LINE OF THE
STRIP OF LAND SIXTY FEET WIDE, DESIGNATED AND CONVEYED TO SAID CITY
OF CHICAGO BY DOCUMENT NUMBER 86597179, A DISTANCE OF 179.00 FEET
TO AN INTERSECTION WITH A LINE, WHICH IS A DISTANCE OF 179.00 FEET
PARALLEL WITH SAID EAST LINE OF NORTH COLUMBUS DRIVE.

THESE SOUTH ALONG SAID EAST LINE OF NORTH RANDOLPH STREET, AS
STREET WAS DESIGNATED AND CONVEYED TO SAID CITY OF CHICAGO BY
INSTRUMENT RECORDED ON THE 11TH DAY OF DECEMBER, 1919 AS
LINE IS PERPENDICULAR TO THE LAST DESCRIBED COURSE, A DISTANCE OF
THESE WEST ALONG A LINE PERPENDICULAR TO THE LAST
DESCRIBED COURSE, A DISTANCE OF 42.00 FEET.

THESE SOUTH ALONG A LINE PERPENDICULAR TO THE LAST
DESCRIBED COURSE, A DISTANCE OF 76.50 FEET TO AN INTERSECTION WITH
THE NORTH LINE OF EAST RANDOLPH STREET, AS SAID EAST RANDOLPH
STREET WAS DESIGNATED AND CONVEYED TO SAID CITY OF CHICAGO BY
INSTRUMENT RECORDED ON THE 11TH DAY OF DECEMBER, 1919 AS
THESE WEST ALONG A LINE, WHICH IS PERPENDICULAR TO SAID EAST
LINE OF NORTH COLUMBUS DRIVE, A DISTANCE OF 355.00 FEET TO THE POINT
ONE SAID SOUTHERLY

EXCEPT FROM THE ABOVE DESCRIBED LANDS ALL THESE PARTS
THEREOF BEING OF AN EVEN WIDTH OF 66 FEET COMPRISING THOSE STRIPS
OF LAND DESCRIBED IN THE AMENDATORY LANE FRONT ORDINANCE PASSED
BY THE CITY COUNCIL OF THE CITY OF CHICAGO ON SEPTEMBER 17, 1969
UNDER THE HEADING AREA RESERVED FOR PUBLIC UTILITIES-DETERMINATIONS
AND GRANTS AS DESIGNATED AND CONVEYED TO THE CITY OF CHICAGO BY
INSTRUMENT RECORDED IN SAID RECORDERS OFFICE ON MARCH 14, 1979 AS
DOCUMENT 24879730, 86597180, 86597181 AND 86597182.

ALSO EXCEPTING FROM THE ABOVE DESCRIBED LANDS THAT PART OF
MORTH FIELD BOULEVARD AS DESIGNATED TO THE CITY OF CHICAGO BY
INSTRUMENT RECORDED IN SAID RECORDERS OFFICE ON THE 12TH DAY OF
DECEMBER 1966 AS DOCUMENT 86597179.

24 NORTH LAKE SHORE DRIVE,

25 DS TO THE RIGHT FROM AN

26 COURSE A DISTANCE OF

27 10.96,722 SQUARE FEET (25.1772 ACRES)

SITE PLAN
PREVIOUS DETECTIONS AND SLIPS
LAKESHORE EAST
CHICAGO, ILLINOIS

DRAWN BY BWS	DATE 1/31/02
CHECKED BY RGB	DATE 1/31/02
APPROVED BY RGB	DATE 1/31/02
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For certain utilities granted
segment Agreement Recorded
document 18474522.

*certain utilities granted
segment Agreement Recorded
18474522

*pair structural foundations
cared space at locations
ago, pursuant to the terms
ator Lake Front Ordinance,
ated And Conveyed Provisions

APRIL 1983 APPROXIMATE 184696111 ER 8659780

THE FENCE SOUTH ALONG SAID NORTHWARD EXTENSION OF SAID EAST LINE OF PARCEL 'A' SAID NORTHWARD EXTENSION BEING PERPENDICULAR

TO THE LAST DESCRIBED LINE (SAID EAST LINE EXCEPTING BEING ALSO
THE WEST LINE OF A STRIP OF LAND 6500 FEET WIDE, DECONVEYED AND
RECONVEYED TO SAID CITY OF CHICAGO FOR PUBLIC UTILITIES BY INSTRUMENT
RECORDED IN THE 14TH DAY OF MARCH, 1979 AS DOCUMENT #407902), A
DISTANCE OF TWELVE FEET TO THE NORTHEAST CORNER OF SAID PARCEL AND
THENCE WEST ALONG THE NORTH LINE OF SAID PARCEL AND THE
WESTWARD EXTENSION THEREOF SAID NORTH LINE BEING A LINE PERPENDICULAR
TO THE LAST DESCRIBED CORNER, A DISTANCE OF 461.33
FEET TO AN INTERSECTION WITH THE WEST LINE OF NORTH FIELD
MALLWOOD, AS DECONVEYED AND CONVEYED TO SAID CITY OF CHICAGO BY
INSTRUMENT RECORDED AS DOCUMENT NUMBER #581729, AFTEREDATED
THENCE SOUTH ALONG SAID WEST LINE OF NORTH FIELD MALLWOOD,
A DISTANCE OF SIXTY FEET TO A POINT ON SAID WEST LINE WHICH IS 175.574
FEET NORTH OF THE INTERSECTION OF SAID WEST LINE AND THE
SOUTHWARD EXTENSION THEREOF WITH THE NORTH LINE OF EAST

AM TO THE LAST
TO AN INTERSECTION
AS EAST WACKER
ROUTE, AS CHICAGO BY
L. 1972 AS DOCUMENT

PERPENDICULAR LINE OF EAST
ANGLES OF SECONDS TO THE
LAST RESONDED COURSE.
INTERSECTION WITH THE
WEST FIELD AVENUE, AND
WARD WAS DEDICATED AND
RECORDED ON THE
NORTHERN LINE OF EAST
WAS DEDICATED AND
INSTRUMENT RECORDED ON
THESE RECORDS TO THE RIGHT FROM
THE NORTH FIELD AVENUE,
AN INTERSECTION WITH THE
EAST FIELD AVENUE.

00 COMPLETED BY DOCUMENT
00 SECURES TO
VOTES AS EAST LINE OF NORTH
FIELD AVENUE, AND CONVEYED BY SAID
00 REFLECTING 94
LINE OF LAND, WITH THE NORTHWARD
TOWARD THE STRIP OF LAND
LAND NORTH LAKE SHORE.

THENCE WEST ALONG A LINE PARALLEL WITH SAID NORTH LINE OF THE
STRIP OF LAND 660 FEET WEST, DESCRIBED AND CONNECTED TO SAID CITY
OF CHICAGO BY RECORDER NUMBER 6597179, A DISTANCE OF 179.05 FEET
TO AN INTERSECTION WITH A LINE WHICH IS 660 FEET EAST OF AND
PARALLEL WITH SAID EAST LINE OF NORTH COLUMBUS DRIVE.

THENCE SOUTH ALONG THE LAST RESONDED PARALLEL LINE, WHICH
LINE IS PERPENDICULAR TO THE LAST RESONDED COURSE, A DISTANCE OF
THENCE WEST ALONG A LINE PERPENDICULAR TO THE LAST
DESCRIBED COURSE, A DISTANCE OF 179.05 FEET.

THENCE SOUTH ALONG A LINE PERPENDICULAR TO THE LAST
DESCRIBED COURSE, A DISTANCE OF 179.05 FEET TO AN INTERSECTION WITH
THE NORTH LINE OF EAST RANDOLPH STREET, AS SAID EAST RANDOLPH
STREET WAS DEDICATED AND CONVEYED TO SAID CITY OF CHICAGO BY
DOCUMENT RECORDED ON THE 11TH DAY OF DECEMBER, 1979 AS

THENCE WEST ALONG SAID NORTH LINE OF EAST RANDOLPH STREET, A
DISTANCE OF 220.44 FEET TO AN INTERSECTION WITH A LINE WHICH IS
330.00 FEET MEASURED PERPENDICULARLY EAST OF AND PARALLEL WITH
SAID EAST LINE OF NORTH COLUMBUS DRIVE, THENCE NORTH ALONG THE
LAST RESONDED PARALLEL LINE A DISTANCE OF 330.00 FEET.

THENCE WEST ALONG A LINE WHICH IS PERPENDICULAR TO SAID EAST
LINE OF NORTH COLUMBUS DRIVE, A DISTANCE OF 330.00 FEET TO THE POINT
ENDCUT FROM THE ABOVE RESONDED LANDS ALONG THESE PARTS
THESE BEING OF AN EVEN WIDTH OF 66 FEET, COMPRISING THOSE STRIPS
OF LAND DESCRIBED IN THE AMENITY LINE, FRONT ORDINANCE PASSED
BY THE CITY COUNCIL OF THE CITY OF CHICAGO ON SEPTEMBER 17, 1969
UNDER THE HEADING AREA RESERVED FOR PUBLIC UTILITIES-DEDICATIONS
AND GRANTS, AS DEDICATED AND CONVEYED TO THE CITY OF CHICAGO BY
INSTRUMENT RECORDED IN SAID RECORDER'S OFFICE ON MARCH 14, 1979 AS
DOCUMENT 6597179 AND ON THE 12TH DAY OF DECEMBER, 1979 AS
DOCUMENTS 6597179, RECORDER AND 6597179.

ALSO EXCEPTING FROM THE ABOVE DESCRIBED LANDS THAT PART OF
NORTH FIELD AVENUE AS DEDICATED TO THE CITY OF CHICAGO BY
INSTRUMENT RECORDED IN SAID RECORDER'S OFFICE ON THE 12TH DAY OF
DECEMBER 1979 AS DOCUMENT 6597179.

ED ON THE 14TH DAY OF

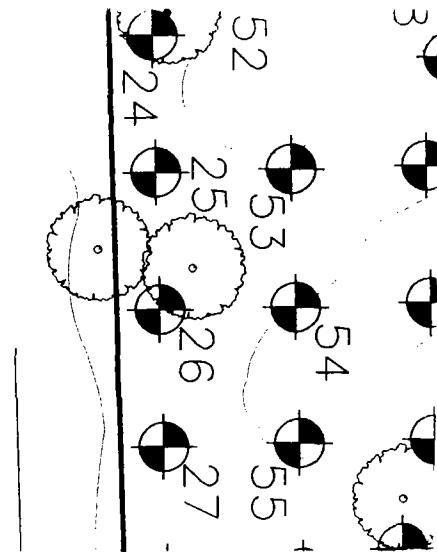
1,096,722 SQUARE FEET (25.1772 ACRES)

For certain utilities granted
Easement Agreement
Document 18474522.

Planned
interim use for the golf
course has been granted by the
City of Chicago, which maintains right of
way, public street and utility

**SITE PLAN
SOIL BORING LOCATION DIAGRAM
LAKESHORE EAST
CHICAGO, ILLINOIS**

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CHECKED BY	RGB	DATE
APPROVED BY	RGB	DATE
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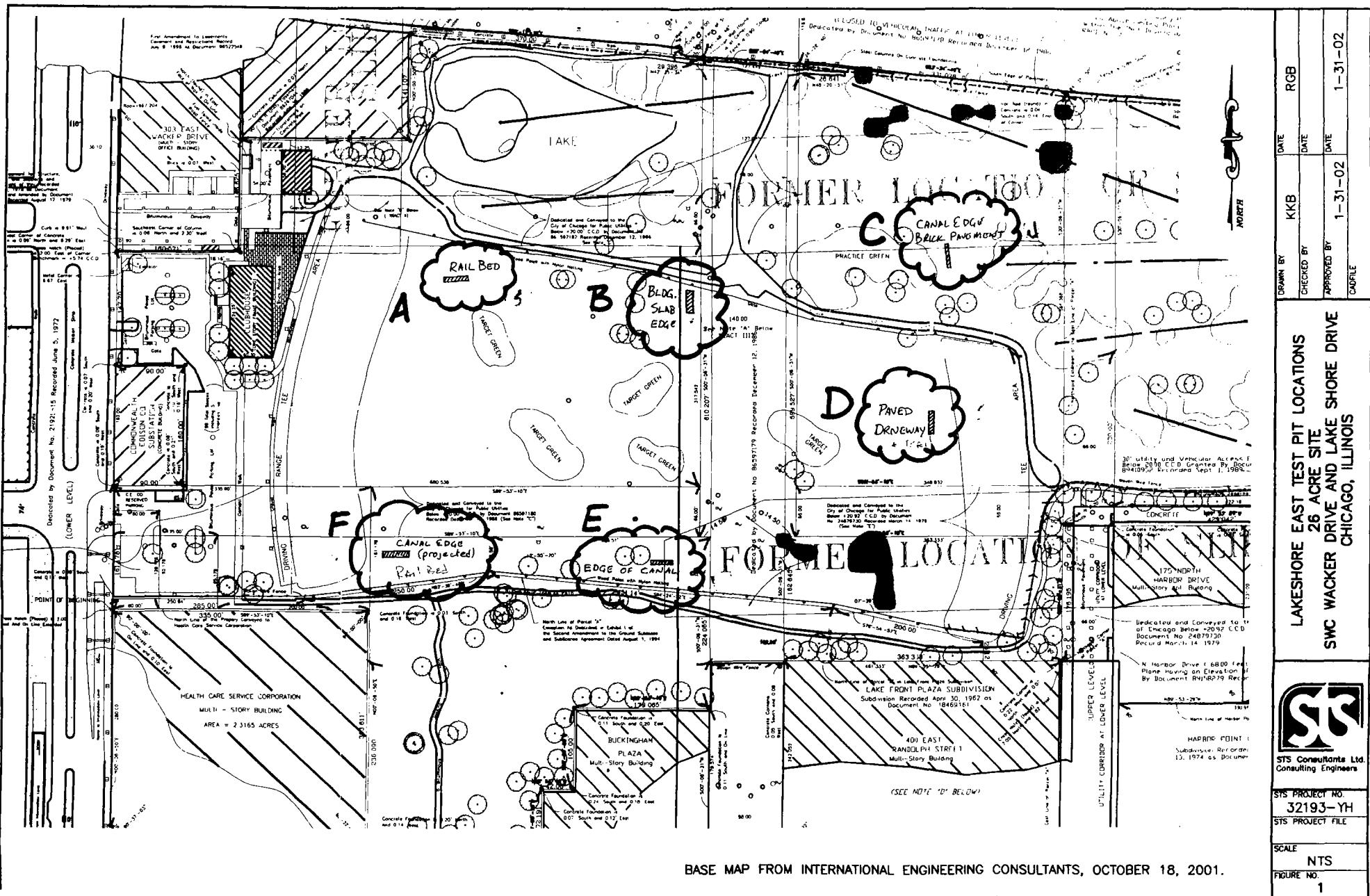


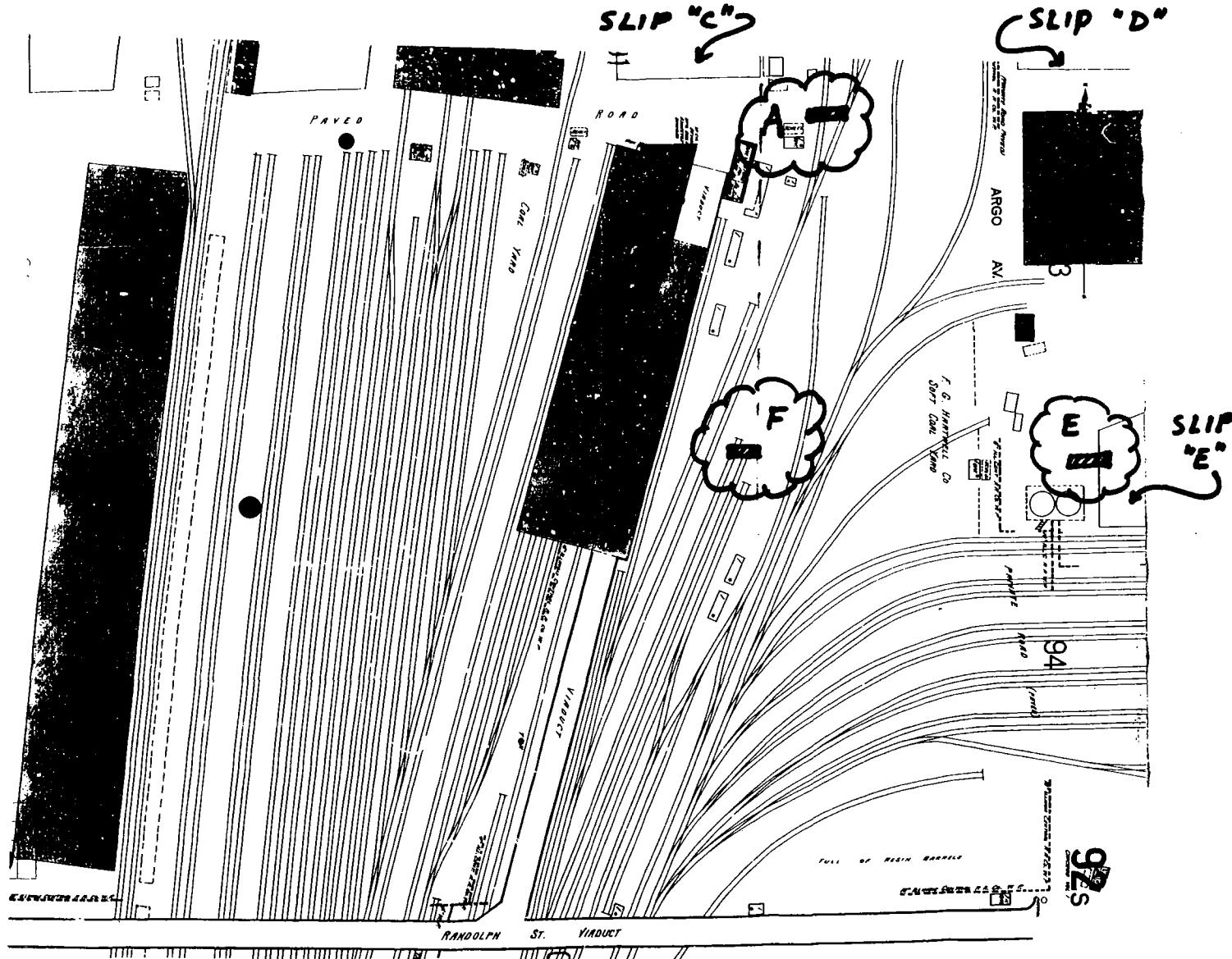
STEP-OUT BORINGS
AND IMPACTED SOIL LOCATIONS
LAKESHORE EAST
CHICAGO, ILLINOIS

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APPROVED BY	RGB	2/5/02
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ISOPACH MAP SHOWING FILL THICKNESS
LAKE SHORE EAST GOLF COURSE
221 N. COLUMBUS DRIVE
CHICAGO, ILLINOIS

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CHECKED BY	DATE
RGB	2/4/02
APPROVED BY	DATE
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BASE MAP FROM SANBORN FIRE INSURANCE MAP, 1906.

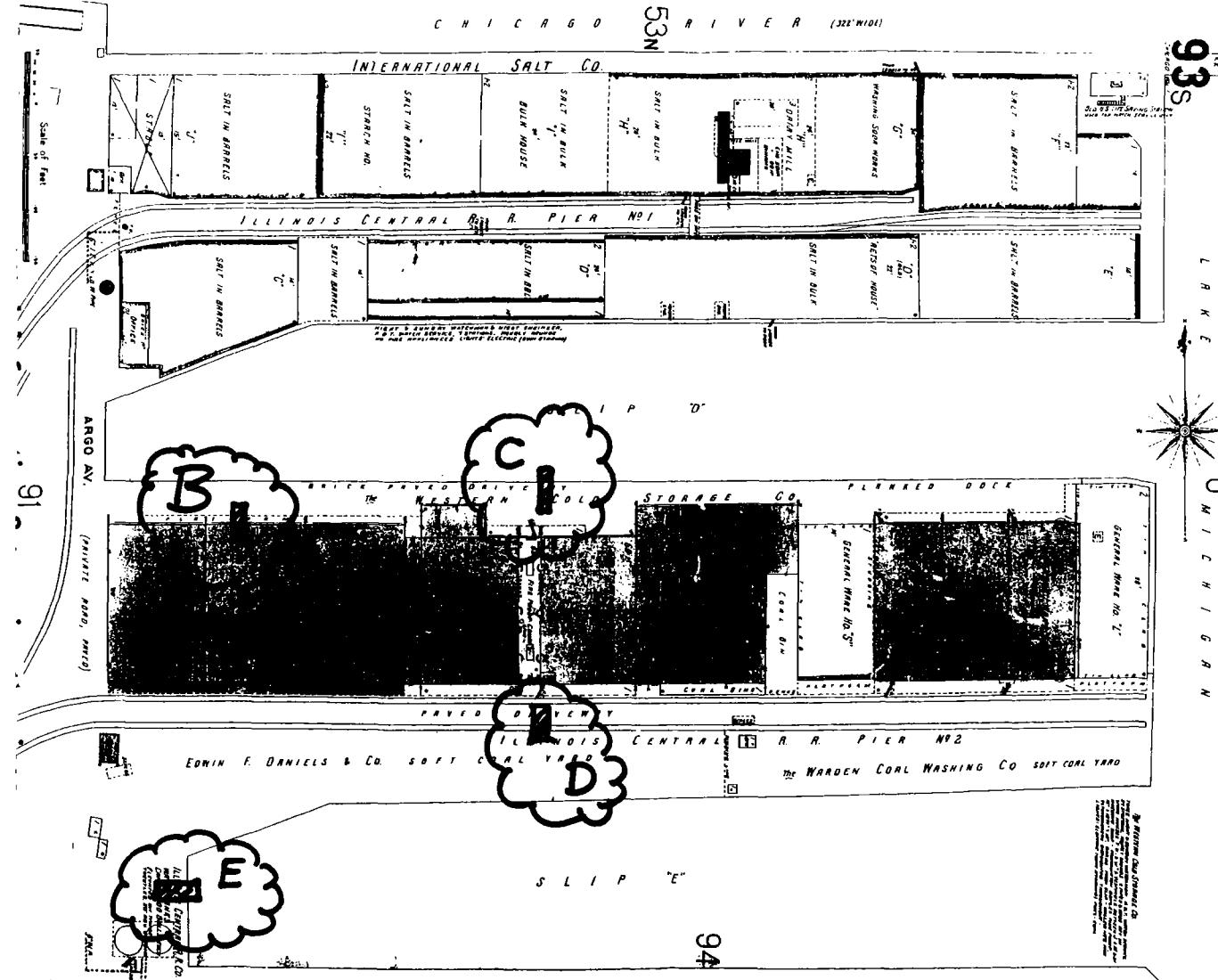


STS Consultants Ltd
Consulting Engineers

~~STS PROJECT NO.~~
32193-YH

SCALE

FIGURE NO.
2A



BASE MAP FROM SANBORN FIRE INSURANCE MAP, 1906.

	LAKESHORE EAST TEST PIT LOCATIONS		
	26 ACRE SITE		
	SWC WACKER DRIVE AND LAKE SHORE DRIVE		
	CHICAGO, ILLINOIS		
DRAWN BY	KKB	DATE	RGB
CHECKED BY		DATE	
APPROVED BY	1-31-02	DATE	1-31-02
CADDFILE			

STS Consultants Ltd.
Consulting Engineers

STS PROJECT NO.
32193-YH

STS PROJECT FILE

SCALE
NTS

FIGURE NO.
2B

Attachment B

Downhole Gamma Logs



Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 2, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 18310

Serial No: 127242

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: 100
Maximum Depth 8 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3075	15.5	
1	5118	16	
1.5	7580	16.5	
2	8305	17	
2.5	8693	17.5	
3	8047	18	
3.5	6362	18.5	
4	5767	19	
4.5	6181	19.5	
5	6087	20	
5.5	5253	20.5	
6	5529	21	
6.5	5084	21.5	
7	3906	22	
7.5	3512	22.5	
8	3336	23	
8.5		23.5	
9		24	
9.5		24.5	
10		25	
10.5		25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 2, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 18310

Serial No.: 127242

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: 101

Maximum Depth 4 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5444	15.5	
1	6990	16	
1.5	6536	16.5	
2	3688	17	
2.5	2910	17.5	
3	3134	18	
3.5	4810	18.5	
4	5029	19	
4.5	5237	19.5	
4.10	5707	20	
5.5		20.5	
6		21	
6.5		21.5	
7		22	
7.5		22.5	
8		23	
8.5		23.5	
9		24	
9.5		24.5	
10		25	
10.5		25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 2, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 18310

Serial No: 127242

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: 102

Maximum Depth 4 feet 4 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3583	15.5	
1	3585	16	
1.5	4395	16.5	
2	5291	17	
2.5	5744	17.5	
3	5926	18	
3.5	6919	18.5	
4	7192	19	
4.4	7259	19.5	
5		20	
5.5		20.5	
6		21	
6.5		21.5	
7		22	
7.5		22.5	
8		23	
8.5		23.5	
9		24	
9.5		24.5	
10		25	
10.5		25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 2, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 18310

Serial No.: 127242

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =
18,059 counts per 30 sec.

* Shielded (2")

Boring No.: 103

Maximum Depth 5 feet 9 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4832	15.5	
1	6348	16	
1.5	6702	16.5	
2	6777	17	
2.5	7462	17.5	
3	7370	18	
3.5	5192	18.5	
4	3521	19	
4.5	4010	19.5	
5	3417	20	
5.5	3334	20.5	
5.9	3217	21	
6.5		21.5	
7		22	
7.5		22.5	
8		23	
8.5		23.5	
9		24	
9.5		24.5	
10		25	
10.5		25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 2, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 18310

Serial No: 127242

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: 106
Maximum Depth 5 feet 8 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	6170	15.5	
1	7344	16	
1.5	7397	16.5	
2	6327	17	
2.5	5392	17.5	
3	5312	18	
3.5	5491	18.5	
4	5425	19	
4.5	5294	19.5	
5	4604	20	
5.5	5623	20.5	
5.8	5609	21	
6.5		21.5	
7		22	
7.5		22.5	
8		23	
8.5		23.5	
9		24	
9.5		24.5	
10		25	
10.5		25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 2, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 18310

Serial No.: 127242

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: 107
Maximum Depth 5.5 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4246	15.5	
1	4899	16	
1.5	4968	16.5	
2	5706	17	
2.5	6473	17.5	
3	5797	18	
3.5	4010	18.5	
4	3945	19	
4.5	4119	19.5	
5	4421	20	
5.5	4294	20.5	
6		21	
6.5		21.5	
7		22	
7.5		22.5	
8		23	
8.5		23.5	
9		24	
9.5		24.5	
10		25	
10.5		25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 2, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 18310

Serial No: 127242

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: 108
Maximum Depth 5 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3270	15.5	
1	4466	16	
1.5	4370	16.5	
2	3193	17	
2.5	2454	17.5	
3	2679	18	
3.5	3269	18.5	
4	3001	19	
4.5	2212	19.5	
5	2946	20	
5.5	3419	20.5	
5.10	3299	21	
6.5		21.5	
7		22	
7.5		22.5	
8		23	
8.5		23.5	
9		24	
9.5		24.5	
10		25	
10.5		25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 7, 2002

Technician: Charles Brown

Instrument Model No.: Ludium 2221

Operational Check: 2,200

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: 109
 Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2635	15.5	
1	3097	16	
1.5	3383	16.5	
2	3713	17	
2.5	3605	17.5	
3	3893	18	
3.5	4032	18.5	
4	4928	19	
4.5	6298	19.5	
5	6521	20	
5.5	4738	20.5	
6	4569	21	
6.5	4901	21.5	
7	5364	22	
7.5	4918	22.5	
8	5431	23	
8.5	6496	23.5	
9	6730	24	
9.5	6749	24.5	
10	6919	25	
10.5	7164	25.5	
11	7853	26	
11.5	8364	26.5	
12	9039	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 7, 2002

Technician: Charles Brown

Instrument Model No.: Ludlum 2221

Operational Check: 2,200

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: 110
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3512	15.5	
1	4240	16	
1.5	4934	16.5	
2	5699	17	
2.5	6298	17.5	
3	5662	18	
3.5	5758	18.5	
4	7745	19	
4.5	8538	19.5	
5	8973	20	
5.5	8981	20.5	
6	8531	21	
6.5	7575	21.5	
7	7366	22	
7.5	7370	22.5	
8	7559	23	
8.5	7732	23.5	
9	7405	24	
9.5	6822	24.5	
10	6136	25	
10.5	5078	25.5	
11	4708	26	
11.5	4989	26.5	
12	5101	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 7, 2002

Technician: Charles Brown

Instrument Model No.: Ludlum 2221

Operational Check: 2,200

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: 111
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3262	15.5	
1	4255	16	
1.5	4350	16.5	
2	4014	17	
2.5	3650	17.5	
3	3232	18	
3.5	3062	18.5	
4	3346	19	
4.5	3411	19.5	
5	3303	20	
5.5	3339	20.5	
6	3765	21	
6.5	3795	21.5	
7	3513	22	
7.5	3444	22.5	
8	3227	23	
8.5	3314	23.5	
9	3062	24	
9.5	2453	24.5	
10	2097	25	
10.5	2590	25.5	
11	3620	26	
11.5	5727	26.5	
12	7566	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 8, 2002

Instrument Model No.: Ludlum 2221

Technician: Toby Shewan

Operational Check: 20,043

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: 112
Maximum Depth 13 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4104	15.5	
1	4565	16	
1.5	4698	16.5	
2	4973	17	
2.5	5939	17.5	
3	5403	18	
3.5	4340	18.5	
4	4044	19	
4.5	3510	19.5	
5	3960	20	
5.5	4106	20.5	
6	3743	21	
6.5	3492	21.5	
7	3542	22	
7.5	3655	22.5	
8	3726	23	
8.5	4209	23.5	
9	5530	24	
9.5	655	24.5	
10	6976	25	
10.5	7444	25.5	
11	7198	26	
11.5	6507	26.5	
12	5834	27	
12.5	5226	27.5	
13	4125	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 9, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,900

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: B-113

Maximum Depth 7 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4040	15.5	
1	5041	16	
1.5	5088	16.5	
2	5243	17	
2.5	4757	17.5	
3	4232	18	
3.5	3879	18.5	
4	3871	19	
4.5	4566	19.5	
5	5411	20	
5.5	5768	20.5	
6	5385	21	
6.5	5204	21.5	
7	4614	22	
7.5	4434	22.5	
8		23	
8.5		23.5	
9		24	
9.5		24.5	
10		25	
10.5		25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 9, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,900

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: B-114

Maximum Depth 5 feet 3 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4194	15.5	
1	4713	16	
1.5	4759	16.5	
2	5148	17	
2.5	6058	17.5	
3	5790	18	
3.5	3730	18.5	
4	2436	19	
4.5	2401	19.5	
5	3203	20	
5.3	3622	20.5	
6		21	
6.5		21.5	
7		22	
7.5		22.5	
8		23	
8.5		23.5	
9		24	
9.5		24.5	
10		25	
10.5		25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 9, 2002

Technician: Toby Shewan

Instrument Model No.: Ludum 2221

Operational Check: 19,900

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: B-116
Maximum Depth 4 feet 11 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3531	15.5	
1	3256	16	
1.5	4944	16.5	
2	6253	17	
2.5	6832	17.5	
3	6827	18	
3.5	7518	18.5	
4	6270	19	
4.5	5371	19.5	
4.11	5991	20	
5.5		20.5	
6		21	
6.5		21.5	
7		22	
7.5		22.5	
8		23	
8.5		23.5	
9		24	
9.5		24.5	
10		25	
10.5		25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 21, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20013

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: 117
Maximum Depth 6 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2548	15.5	
1	3836	16	
1.5	4925	16.5	
2	5175	17	
2.5	4877	17.5	
3	4993	18	
3.5	4618	18.5	
4	3490	19	
4.5	2802	19.5	
5	5845	20	
5.5	9139	20.5	
6	8204	21	
6.5	6825	21.5	
6.10	5626	22	
7.5		22.5	
8		23	
8.5		23.5	
9		24	
9.5		24.5	
10		25	
10.5		25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 21, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20013

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: 118
Maximum Depth 6 feet 11 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2938	15.5	
1	4865	16	
1.5	5743	16.5	
2	6181	17	
2.5	5481	17.5	
3	4396	18	
3.5	3801	18.5	
4	2833	19	
4.5	4277	19.5	
5	6665	20	
5.5	6871	20.5	
6	6873	21	
6.5	6360	21.5	
6.11	6121	22	
7.5		22.5	
8		23	
8.5		23.5	
9		24	
9.5		24.5	
10		25	
10.5		25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 21, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20013

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: 119
Maximum Depth 6 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2708	15.5	
1	3596	16	
1.5	4217	16.5	
2	4280	17	
2.5	4440	17.5	
3	4275	18	
3.5	4496	18.5	
4	5482	19	
4.5	5096	19.5	
5	5709	20	
5.5	5251	20.5	
6	4883	21	
6.5	5824	21.5	
7		22	
7.5		22.5	
8		23	
8.5		23.5	
9		24	
9.5		24.5	
10		25	
10.5		25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 21, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20013

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: 120
Maximum Depth 6 feet 9 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2883	15.5	
1	4672	16	
1.5	5850	16.5	
2	6609	17	
2.5	6619	17.5	
3	6629	18	
3.5	5436	18.5	
4	5837	19	
4.5	6220	19.5	
5	5625	20	
5.5	4774	20.5	
6	5477	21	
6.5	6251	21.5	
6.9	6391	22	
7.5		22.5	
8		23	
8.5		23.5	
9		24	
9.5		24.5	
10		25	
10.5		25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 21, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20013

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: 121
Maximum Depth 5 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2496	15.5	
1	4329	16	
1.5	5777	16.5	
2	5956	17	
2.5	5595	17.5	
3	4213	18	
3.5	3625	18.5	
4	4482	19	
4.5	5214	19.5	
5	4028	20	
5.5	2739	20.5	
6		21	
6.5		21.5	
7		22	
7.5		22.5	
8		23	
8.5		23.5	
9		24	
9.5		24.5	
10		25	
10.5		25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 21, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20013

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: 122
Maximum Depth 6 feet 3 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3109	15.5	
1	4653	16	
1.5	5112	16.5	
2	5882	17	
2.5	7151	17.5	
3	6827	18	
3.5	6196	18.5	
4	4880	19	
4.5	4799	19.5	
5	4738	20	
5.5	4448	20.5	
6	3377	21	
6.3	3848	21.5	
7		22	
7.5		22.5	
8		23	
8.5		23.5	
9		24	
9.5		24.5	
10		25	
10.5		25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 2, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19022

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: C-1
Maximum Depth 12 feet 2 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3422	15.5	
1	3989	16	
1.5	4058	16.5	
2	4031	17	
2.5	3859	17.5	
3	3963	18	
3.5	3939	18.5	
4	4071	19	
4.5	4182	19.5	
5	4756	20	
5.5	4277	20.5	
6	3896	21	
6.5	3620	21.5	
7	3791	22	
7.5	3927	22.5	
8	4866	23	
8.5	5693	23.5	
9	5899	24	
9.5	4981	24.5	
10	4295	25	
10.5	4444	25.5	
11	4243	26	
11.5	3991	26.5	
12	4027	27	
12.2	4110	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 2, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19022

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =
18,059 counts per 30 sec.

• Shielded (2")

Boring No.: C-2

Maximum Depth 12 feet 2 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3212	15.5	
1	3065	16	
1.5	3611	16.5	
2	3954	17	
2.5	3901	17.5	
3	3548	18	
3.5	3643	18.5	
4	3606	19	
4.5	3807	19.5	
5	3768	20	
5.5	3912	20.5	
6	3720	21	
6.5	3800	21.5	
7	3517	22	
7.5	3044	22.5	
8	3099	23	
8.5	3814	23.5	
9	3821	24	
9.5	3620	24.5	
10	3516	25	
10.5	3337	25.5	
11	3318	26	
11.5	3207	26.5	
12	3267	27	
12.4	3496	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 2, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19022

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: C-3

Maximum Depth 12 feet 8 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3750	15.5	
1	3695	16	
1.5	3753	16.5	
2	3447	17	
2.5	3270	17.5	
3	3304	18	
3.5	3397	18.5	
4	3435	19	
4.5	3497	19.5	
5	3382	20	
5.5	3516	20.5	
6	3498	21	
6.5	3314	21.5	
7	3472	22	
7.5	3187	22.5	
8	2982	23	
8.5	3001	23.5	
9	3108	24	
9.5	3306	24.5	
10	3498	25	
10.5	3927	25.5	
11	3989	26	
11.5	4020	26.5	
12	4290	27	
12.5	4727	27.5	
12.8	4914	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 2, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19022

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: C-4
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2934	15.5	
1	3979	16	
1.5	4821	16.5	
2	5505	17	
2.5	5939	17.5	
3	5904	18	
3.5	6077	18.5	
4	5713	19	
4.5	5372	19.5	
5	5359	20	
5.5	5451	20.5	
6	5190	21	
6.5	4553	21.5	
7	4582	22	
7.5	7275	22.5	
8	7900	23	
8.5	6875	23.5	
9	5745	24	
9.5	6173	24.5	
10	6062	25	
10.5	6932	25.5	
11	7609	26	
11.5	5854	26.5	
12	4871	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 2, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19022

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: C-5
Maximum Depth 11 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4017	15.5	
1	4612	16	
1.5	5057	16.5	
2	5391	17	
2.5	5426	17.5	
3	5298	18	
3.5	5450	18.5	
4	6004	19	
4.5	6923	19.5	
5	6784	20	
5.5	6131	20.5	
6	5802	21	
6.5	5959	21.5	
7	5662	22	
7.5	5148	22.5	
8	5435	23	
8.5	7271	23.5	
9	7356	24	
9.5	7775	24.5	
10	8667	25	
10.5	7989	25.5	
11	7782	26	
11.5	7012	26.5	
11.10	6644	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 2, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19022

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: C-6
Maximum Depth 13 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4914	15.5	
1	3959	16	
1.5	4065	16.5	
2	4512	17	
2.5	5152	17.5	
3	4809	18	
3.5	5371	18.5	
4	5879	19	
4.5	5702	19.5	
5	4997	20	
5.5	5550	20.5	
6	5890	21	
6.5	6305	21.5	
7	6093	22	
7.5	5229	22.5	
8	4810	23	
8.5	4064	23.5	
9	3617	24	
9.5	2994	24.5	
10	3393	25	
10.5	4558	25.5	
11	4828	26	
11.5	4574	26.5	
12	4654	27	
12.5	4774	27.5	
13	4534	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 9, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,900

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: C-7
Maximum Depth 11 feet 8 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3871	15.5	
1	3975	16	
1.5	4585	16.5	
2	4381	17	
2.5	4008	17.5	
3	3919	18	
3.5	3609	18.5	
4	3534	19	
4.5	3588	19.5	
5	3680	20	
5.5	3602	20.5	
6	4532	21	
6.5	5278	21.5	
7	5206	22	
7.5	5119	22.5	
8	4996	23	
8.5	4574	23.5	
9	4369	24	
9.5	3856	24.5	
10	3300	25	
10.5	2860	25.5	
11	2574	26	
11.5	2603	26.5	
11.8	2449	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

**Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH**

Date: January 9, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,900

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: C-9

Maximum Depth 10 feet 3 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2609	15.5	
1	3654	16	
1.5	3640	16.5	
2	3406	17	
2.5	3441	17.5	
3	3582	18	
3.5	4933	18.5	
4	8799	19	
4.5	7546	19.5	
5	6633	20	
5.5	5967	20.5	
6	5419	21	
6.5	4554	21.5	
7	3850	22	
7.5	3248	22.5	
8	3160	23	
8.5	3186	23.5	
9	3315	24	
9.5	2957	24.5	
10	2451	25	
10.3	2060	25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 9, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,900

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: C-10
Maximum Depth 11 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2470	15.5	
1	4244	16	
1.5	5737	16.5	
2	5880	17	
2.5	5586	17.5	
3	5670	18	
3.5	6133	18.5	
4	8526	19	
4.5	6031	19.5	
5	4321	20	
5.5	4151	20.5	
6	4074	21	
6.5	3972	21.5	
7	4014	22	
7.5	4023	22.5	
8	4295	23	
8.5	4284	23.5	
9	4386	24	
9.5	4109	24.5	
10	4090	25	
10.5	3808	25.5	
11	3793	26	
11.5	4162	26.5	
11.10	4200	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 9, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,900

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

• Shielded (2")

18,059 counts per 30 sec.

Boring No.: C-11

Maximum Depth 11 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3230	15.5	
1	5291	16	
1.5	6039	16.5	
2	5944	17	
2.5	5732	17.5	
3	6529	18	
3.5	6840	18.5	
4	6591	19	
4.5	5940	19.5	
5	5274	20	
5.5	4159	20.5	
6	5211	21	
6.5	6663	21.5	
7	6548	22	
7.5	6624	22.5	
8	5881	23	
8.5	5077	23.5	
9	5217	24	
9.5	5619	24.5	
10	5396	25	
10.5	5986	25.5	
11	6399	26	
11.5	6721	26.5	
11.10	6579	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 21, 2002 Technician: Toby Shewan
Instrument Model No.: Ludlum 2221 Operational Check: 20013
 Serial No: 132844
Probe Model No.: PR 44-10
 Serial No.: 168144 Cutoff Value = 7.2 pCi/gm =
* Shielded (2") 18,059 counts per 30 sec.

Boring No.: C-12
Maximum Depth 12 feet 9 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4278	15.5	
1	5910	16	
1.5	6772	16.5	
2	7317	17	
2.5	7459	17.5	
3	8707	18	
3.5	7723	18.5	
4	6803	19	
4.5	5986	19.5	
5	5323	20	
5.5	4893	20.5	
6	4696	21	
6.5	5385	21.5	
7	5183	22	
7.5	4667	22.5	
8	4422	23	
8.5	4658	23.5	
9	4496	24	
9.5	4600	24.5	
10	4642	25	
10.5	4839	25.5	
11	5303	26	
11.5	6385	26.5	
12	7171	27	
12.5	8847	27.5	
12.9	8915	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 21, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20013

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: C-13
Maximum Depth 13 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4189	15.5	
1	5580	16	
1.5	6257	16.5	
2	6523	17	
2.5	6334	17.5	
3	8477	18	
3.5	8886	18.5	
4	7957	19	
4.5	6566	19.5	
5	5152	20	
5.5	5331	20.5	
6	6248	21	
6.5	6588	21.5	
7	6341	22	
7.5	6410	22.5	
8	6546	23	
8.5	6144	23.5	
9	5692	24	
9.5	5216	24.5	
10	5168	25	
10.5	5751	25.5	
11	5756	26	
11.5	6039	26.5	
12	6233	27	
12.5	6678	27.5	
13	6103	28	
13.5	5322	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 21, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20013

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: C-14
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4007	15.5	
1	5536	16	
1.5	5971	16.5	
2	5918	17	
2.5	5653	17.5	
3	6596	18	
3.5	7494	18.5	
4	6909	19	
4.5	5331	19.5	
5	5742	20	
5.5	6347	20.5	
6	6312	21	
6.5	4986	21.5	
7	4468	22	
7.5	4229	22.5	
8	5406	23	
8.5	7793	23.5	
9	8425	24	
9.5	6458	24.5	
10	6274	25	
10.5	7377	25.5	
11	7519	26	
11.5	7433	26.5	
12	6403	27	
12.5	4902	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 21, 2002

Technician: Toby Shewan

Instrument Model No.: Ludium 2221

Operational Check: 20013

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: C-15
Maximum Depth 12 feet 9 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3637	15.5	
1	5068	16	
1.5	6168	16.5	
2	6299	17	
2.5	6292	17.5	
3	6902	18	
3.5	6805	18.5	
4	7161	19	
4.5	7454	19.5	
5	7612	20	
5.5	7513	20.5	
6	6354	21	
6.5	5702	21.5	
7	6079	22	
7.5	5719	22.5	
8	5222	23	
8.5	5136	23.5	
9	4389	24	
9.5	3491	24.5	
10	2934	25	
10.5	3231	25.5	
11	4348	26	
11.5	5772	26.5	
12	6841	27	
12.5	6505	27.5	
12.9	5889	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 21, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20013

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: C-16
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3231	15.5	
1	4651	16	
1.5	4489	16.5	
2	3862	17	
2.5	3921	17.5	
3	4271	18	
3.5	5509	18.5	
4	6037	19	
4.5	5305	19.5	
5	5573	20	
5.5	5111	20.5	
6	5172	21	
6.5	4971	21.5	
7	5109	22	
7.5	5049	22.5	
8	5418	23	
8.5	5666	23.5	
9	6012	24	
9.5	6473	24.5	
10	7830	25	
10.5	7704	25.5	
11	6759	26	
11.5	6122	26.5	
12	5602	27	
12.5	5502	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 21, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20013

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: C-17
Maximum Depth 12 feet 3 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2756	15.5	
1	4089	16	
1.5	6119	16.5	
2	6875	17	
2.5	5060	17.5	
3	3712	18	
3.5	4604	18.5	
4	4983	19	
4.5	4736	19.5	
5	4673	20	
5.5	4679	20.5	
6	5089	21	
6.5	5202	21.5	
7	5014	22	
7.5	5490	22.5	
8	5427	23	
8.5	5614	23.5	
9	6906	24	
9.5	5929	24.5	
10	4398	25	
10.5	5168	25.5	
11	5909	26	
11.5	5813	26.5	
12	5522	27	
12.3	5646	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 10, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20, 004

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-1
Maximum Depth 11 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3560	15.5	
1	3247	16	
1.5	3345	16.5	
2	2590	17	
2.5	2319	17.5	
3	2850	18	
3.5	3462	18.5	
4	3316	19	
4.5	3514	19.5	
5	4876	20	
5.5	4359	20.5	
6	3925	21	
6.5	3169	21.5	
7	2936	22	
7.5	2846	22.5	
8	2832	23	
8.5	2762	23.5	
9	2572	24	
9.5	2328	24.5	
10	2582	25	
10.5	3247	25.5	
11	3597	26	
11.5	4538	26.5	
11.10	5247	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 10, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20, 004

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-2
Maximum Depth 11 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3356	15.5	
1	3363	16	
1.5	2858	16.5	
2	2009	17	
2.5	2706	17.5	
3	4531	18	
3.5	5406	18.5	
4	5425	19	
4.5	5408	19.5	
5	5900	20	
5.5	6042	20.5	
6	5956	21	
6.5	5366	21.5	
7	6524	22	
7.5	6634	22.5	
8	6866	23	
8.5	7931	23.5	
9	7312	24	
9.5	6925	24.5	
10	7678	25	
10.5	8104	25.5	
11	7940	26	
11.5	7605	26.5	
11.10	7022	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 10, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20, 004

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-3
Maximum Depth 11 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3648	15.5	
1	4214	16	
1.5	4437	16.5	
2	3883	17	
2.5	3478	17.5	
3	3379	18	
3.5	4003	18.5	
4	4884	19	
4.5	5405	19.5	
5	5737	20	
5.5	5243	20.5	
6	5071	21	
6.5	5451	21.5	
7	4836	22	
7.5	3462	22.5	
8	4500	23	
8.5	4490	23.5	
9	4450	24	
9.5	4037	24.5	
10	3812	25	
10.5	3938	25.5	
11	4229	26	
11.5	4413	26.5	
11.10	4264	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 10, 2002

Technician: Toby Shewan

Instrument Model No.: Ludium 2221

Operational Check: 20, 004

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-4
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3210	15.5	
1	3432	16	
1.5	3752	16.5	
2	3122	17	
2.5	3920	17.5	
3	7029	18	
3.5	7823	18.5	
4	8462	19	
4.5	8020	19.5	
5	7827	20	
5.5	6844	20.5	
6	5393	21	
6.5	3802	21.5	
7	3400	22	
7.5	3493	22.5	
8	3684	23	
8.5	4018	23.5	
9	4982	24	
9.5	6222	24.5	
10	6592	25	
10.5	5702	25.5	
11	5353	26	
11.5	6072	26.5	
12	7531	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 10, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20, 004

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-5
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3320	15.5	
1	3923	16	
1.5	5301	16.5	
2	4099	17	
2.5	3303	17.5	
3	3762	18	
3.5	3823	18.5	
4	3852	19	
4.5	3947	19.5	
5	4006	20	
5.5	4030	20.5	
6	4048	21	
6.5	3994	21.5	
7	3878	22	
7.5	3421	22.5	
8	3659	23	
8.5	3799	23.5	
9	3627	24	
9.5	3559	24.5	
10	3313	25	
10.5	2930	25.5	
11	3445	26	
11.5	3600	26.5	
12	3299	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 10, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20, 004

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-6
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3649	15.5	
1	3975	16	
1.5	4792	16.5	
2	6878	17	
2.5	7320	17.5	
3	5408	18	
3.5	5160	18.5	
4	5045	19	
4.5	4882	19.5	
5	5349	20	
5.5	5606	20.5	
6	6271	21	
6.5	5982	21.5	
7	6062	22	
7.5	6532	22.5	
8	7380	23	
8.5	7843	23.5	
9	8244	24	
9.5	8238	24.5	
10	8005	25	
10.5	7370	25.5	
11	6783	26	
11.5	6697	26.5	
12	6302	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 10, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20, 004

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-7
Maximum Depth 12 feet 2 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3873	15.5	
1	4587	16	
1.5	4204	16.5	
2	3395	17	
2.5	3876	17.5	
3	6068	18	
3.5	6524	18.5	
4	5221	19	
4.5	6154	19.5	
5	6120	20	
5.5	6146	20.5	
6	5423	21	
6.5	4727	21.5	
7	4497	22	
7.5	4451	22.5	
8	4640	23	
8.5	4752	23.5	
9	4930	24	
9.5	4868	24.5	
10	4802	25	
10.5	4640	25.5	
11	4505	26	
11.5	4417	26.5	
12	4400	27	
12.2	4430	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 10, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20, 004

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-8
Maximum Depth 12 feet 4 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3330	15.5	
1	3723	16	
1.5	3782	16.5	
2	3954	17	
2.5	3778	17.5	
3	3535	18	
3.5	3939	18.5	
4	4262	19	
4.5	4682	19.5	
5	5310	20	
5.5	5387	20.5	
6	5353	21	
6.5	5158	21.5	
7	5017	22	
7.5	5003	22.5	
8	4944	23	
8.5	4908	23.5	
9	5938	24	
9.5	6323	24.5	
10	6326	25	
10.5	6334	25.5	
11	7231	26	
11.5	7566	26.5	
12	7470	27	
12.4	7037	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 10, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20, 004

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-9
Maximum Depth 11 feet 3 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3029	15.5	
1	3435	16	
1.5	3475	16.5	
2	3639	17	
2.5	3665	17.5	
3	3968	18	
3.5	4083	18.5	
4	4347	19	
4.5	4888	19.5	
5	5286	20	
5.5	5700	20.5	
6	5559	21	
6.5	5594	21.5	
7	5352	22	
7.5	5195	22.5	
8	5155	23	
8.5	5896	23.5	
9	6135	24	
9.5	6611	24.5	
10	6385	25	
10.5	6133	25.5	
11	6454	26	
11.3	6253	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 10, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20, 004

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-10
Maximum Depth 11 feet 8 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4171	15.5	
1	4561	16	
1.5	5308	16.5	
2	6816	17	
2.5	7147	17.5	
3	7139	18	
3.5	7531	18.5	
4	13,159	19	
4.5	40,657	19.5	
5	115,880	20	
5.5	42,155	20.5	
6	18,663	21	
6.5	11,641	21.5	
7	8982	22	
7.5	8037	22.5	
8	8160	23	
8.5	8337	23.5	
9	8279	24	
9.5	7616	24.5	
10	6765	25	
10.5	6827	25.5	
11	8009	26	
11.5	7973	26.5	
11.8	7905	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log
Project No. 32193ZH

Date: January 22, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-10 A
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3325	15.5	
1	4009	16	
1.5	3908	16.5	
2	2810	17	
2.5	3142	17.5	
3	4562	18	
3.5	4332	18.5	
4	4435	19	
4.5	4640	19.5	
5	4951	20	
5.5	4975	20.5	
6	4775	21	
6.5	5210	21.5	
7	6011	22	
7.5	5904	22.5	
8	6381	23	
8.5	6267	23.5	
9	6671	.4	
9.5	6751	24.5	
10	7392	25	
10.5	8279	25.5	
11	7582	26	
11.5	7000	26.5	
12	7088	27	
12.5	7265	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 22, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-10 B
Maximum Depth 13 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3474	15.5	
1	4879	16	
1.5	5064	16.5	
2	3241	17	
2.5	2832	17.5	
3	4379	18	
3.5	5838	18.5	
4	5564	19	
4.5	5136	19.5	
5	4563	20	
5.5	4421	20.5	
6	4756	21	
6.5	5153	21.5	
7	3682	22	
7.5	3570	22.5	
8	3911	23	
8.5	4774	23.5	
9	5115	24	
9.5	4882	24.5	
10	4732	25	
10.5	4891	25.5	
11	4418	26	
11.5	4402	26.5	
12	3937	27	
12.5	3451	27.5	
13	3582	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 22, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,721

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-10 C
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4399	15.5	
1	4010	16	
1.5	4180	16.5	
2	4637	17	
2.5	4739	17.5	
3	5288	18	
3.5	4854	18.5	
4	5191	19	
4.5	6877	19.5	
5	7879	20	
5.5	6873	20.5	
6	6312	21	
6.5	6314	21.5	
7	5819	22	
7.5	5790	22.5	
8	5289	23	
8.5	5307	23.5	
9	5732	24	
9.5	7052	24.5	
10	8122	25	
10.5	8034	25.5	
11	7161	26	
11.5	7455	26.5	
12	7963	27	
12.5	8236	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 10, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20, 004

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-11

Maximum Depth 11 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3221	15.5	
1	4315	16	
1.5	5109	16.5	
2	5132	17	
2.5	5639	17.5	
3	6240	18	
3.5	6376	18.5	
4	6234	19	
4.5	5495	19.5	
5	6032	20	
5.5	5730	20.5	
6	5560	21	
6.5	6080	21.5	
7	6477	22	
7.5	6726	22.5	
8	6668	23	
8.5	5817	23.5	
9	5668	24	
9.5	5112	24.5	
10	4706	25	
10.5	4198	25.5	
11	3988	26	
11.5	3895	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 10, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20, 004

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-12
Maximum Depth 11 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4873	15.5	
1	5518	16	
1.5	5749	16.5	
2	6551	17	
2.5	7439	17.5	
3	6789	18	
3.5	5252	18.5	
4	2572	19	
4.5	2907	19.5	
5	5214	20	
5.5	5243	20.5	
6	4839	21	
6.5	4929	21.5	
7	4348	22	
7.5	5339	22.5	
8	5873	23	
8.5	7527	23.5	
9	9272	24	
9.5	9425	24.5	
10	9618	25	
10.5	9335	25.5	
11	8848	26	
11.5	9302	26.5	
11.10	9460	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 28, 982

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2°)

18,059 counts per 30 sec.

Boring No.: D-13
Maximum Depth 11 feet 3 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3681	15.5	
1	4622	16	
1.5	4715	16.5	
2	5161	17	
2.5	5016	17.5	
3	4999	18	
3.5	3066	18.5	
4	3831	19	
4.5	5239	19.5	
5	6238	20	
5.5	6916	20.5	
6	6486	21	
6.5	6705	21.5	
7	6146	22	
7.5	5614	22.5	
8	5121	23	
8.5	4825	23.5	
9	4479	24	
9.5	4823	24.5	
10	5155	25	
10.5	4935	25.5	
11	4585	26	
11.3	4375	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 28, 982

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-14
Maximum Depth 12 feet 4 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4241	15.5	
1	5068	16	
1.5	5355	16.5	
2	5721	17	
2.5	6088	17.5	
3	7185	18	
3.5	5925	18.5	
4	5656	19	
4.5	5462	19.5	
5	5012	20	
5.5	6540	20.5	
6	7132	21	
6.5	7672	21.5	
7	7120	22	
7.5	6678	22.5	
8	6478	23	
8.5	7031	23.5	
9	6989	24	
9.5	6730	24.5	
10	6285	25	
10.5	5874	25.5	
11	5911	26	
11.5	5959	26.5	
12	6023	27	
12.4	6170	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 28, 982

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-15
 Maximum Depth 12 feet 9 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4154	15.5	
1	5017	16	
1.5	5118	16.5	
2	5163	17	
2.5	4778	17.5	
3	4644	18	
3.5	4431	18.5	
4	4704	19	
4.5	4517	19.5	
5	5159	20	
5.5	5598	20.5	
6	4970	21	
6.5	4900	21.5	
7	4340	22	
7.5	3536	22.5	
8	4687	23	
8.5	5877	23.5	
9	6300	24	
9.5	6934	24.5	
10	7485	25	
10.5	8182	25.5	
11	7235	26	
11.5	5427	26.5	
12	4898	27	
12.5	5449	27.5	
12.9	5893	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 28, 982

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-16
Maximum Depth 11 feet 7 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4490	15.5	
1	5407	16	
1.5	5336	16.5	
2	4907	17	
2.5	4984	17.5	
3	3568	18	
3.5	2628	18.5	
4	5383	19	
4.5	5964	19.5	
5	5176	20	
5.5	5559	20.5	
6	6763	21	
6.5	6873	21.5	
7	5697	22	
7.5	4819	22.5	
8	4787	23	
8.5	5489	23.5	
9	6143	24	
9.5	5778	24.5	
10	4893	25	
10.5	4342	25.5	
11	4271	26	
11.5	3969	26.5	
11.7	3912	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 28, 982

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-17
Maximum Depth 11 feet 7 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3796	15.5	
1	4836	16	
1.5	4868	16.5	
2	4201	17	
2.5	4431	17.5	
3	4955	18	
3.5	4786	18.5	
4	422	19	
4.5	5209	19.5	
5	5647	20	
5.5	4456	20.5	
6	3931	21	
6.5	4314	21.5	
7	3885	22	
7.5	4117	22.5	
8	3845	23	
8.5	3588	23.5	
9	3100	24	
9.5	2856	24.5	
10	3117	25	
10.5	3736	25.5	
11	3869	26	
11.5	3695	26.5	
11.7	3675	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 28, 982

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =
18,059 counts per 30 sec.

* Shielded (2")

Boring No.: D-18
Maximum Depth 11 feet 11 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4108	15.5	
1	4986	16	
1.5	5555	16.5	
2	5978	17	
2.5	6327	17.5	
3	5741	18	
3.5	4045	18.5	
4	3524	19	
4.5	3909	19.5	
5	3793	20	
5.5	3453	20.5	
6	3624	21	
6.5	5738	21.5	
7	6832	22	
7.5	6120	22.5	
8	5385	23	
8.5	5150	23.5	
9	5277	24	
9.5	5588	24.5	
10	5872	25	
10.5	6204	25.5	
11	5119	26	
11.5	4460	26.5	
11.11	4285	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 28, 982

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-19

Maximum Depth 11 feet 9 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4369	15.5	
1	5606	16	
1.5	5763	16.5	
2	5386	17	
2.5	5641	17.5	
3	4753	18	
3.5	4536	18.5	
4	4736	19	
4.5	3432	19.5	
5	2061	20	
5.5	3861	20.5	
6	5647	21	
6.5	5606	21.5	
7	5254	22	
7.5	5432	22.5	
8	5909	23	
8.5	5308	23.5	
9	5021	24	
9.5	4997	24.5	
10	4969	25	
10.5	4759	25.5	
11	5423	26	
11.5	5406	26.5	
11.9	5328	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 28, 982

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-20
Maximum Depth 11 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4130	15.5	
1	4818	16	
1.5	4891	16.5	
2	4977	17	
2.5	4832	17.5	
3	5294	18	
3.5	5158	18.5	
4	5754	19	
4.5	4950	19.5	
5	3909	20	
5.5	3397	20.5	
6	2799	21	
6.5	2284	21.5	
7	2473	22	
7.5	2253	22.5	
8	2311	23	
8.5	2278	23.5	
9	2207	24	
9.5	2152	24.5	
10	2133	25	
10.5	2090	25.5	
11	2045	26	
11.5	2300	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 28, 982

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-21
Maximum Depth 13 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3999	15.5	
1	4947	16	
1.5	4813	16.5	
2	3092	17	
2.5	2101	17.5	
3	4291	18	
3.5	7833	18.5	
4	6839	19	
4.5	5626	19.5	
5	5429	20	
5.5	5939	20.5	
6	6425	21	
6.5	6206	21.5	
7	5482	22	
7.5	5854	22.5	
8	66979	23	
8.5	7334	23.5	
9	6340	24	
9.5	5152	24.5	
10	5572	25	
10.5	3943	25.5	
11	3962	26	
11.5	4192	26.5	
12	5254	27	
12.5	6446	27.5	
13	6688	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 28, 982

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-22
Maximum Depth 9 feet 4 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5006	15.5	
1	5957	16	
1.5	6015	16.5	
2	6228	17	
2.5	5808	17.5	
3	5234	18	
3.5	5768	18.5	
4	6314	19	
4.5	6321	19.5	
5	6453	20	
5.5	6659	20.5	
6	7229	21	
6.5	7449	21.5	
7	7000	22	
7.5	6088	22.5	
8	5146	23	
8.5	4904	23.5	
9	6084	24	
9.4 obstructed	6413	24.5	
10		25	
10.5		25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 28, 982

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-23
 Maximum Depth 12 feet 2 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5029	15.5	
1	6088	16	
1.5	6887	16.5	
2	3813	17	
2.5	2207	17.5	
3	3652	18	
3.5	5325	18.5	
4	4844	19	
4.5	4591	19.5	
5	5581	20	
5.5	5162	20.5	
6	4526	21	
6.5	4617	21.5	
7	4380	22	
7.5	4107	22.5	
8	4170	23	
8.5	4945	23.5	
9	6134	24	
9.5	8127	24.5	
10	8734	25	
10.5	8432	25.5	
11	7389	26	
11.5	5755	26.5	
12	4683	27	
12.2	4473	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 28, 982

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-24
Maximum Depth 11 feet 11 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4492	15.5	
1	5822	16	
1.5	5313	16.5	
2	4449	17	
2.5	2351	17.5	
3	3959	18	
3.5	5654	18.5	
4	6556	19	
4.5	6352	19.5	
5	6216	20	
5.5	5624	20.5	
6	5016	21	
6.5	4281	21.5	
7	4338	22	
7.5	4238	22.5	
8	3885	23	
8.5	4079	23.5	
9	4594	24	
9.5	4015	24.5	
10	3801	25	
10.5	4171	25.5	
11	5990	26	
11.5	7825	26.5	
11.11	8228	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 28, 982

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-25

Maximum Depth 11 feet 4 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3353	15.5	
1	5578	16	
1.5	7766	16.5	
2	7628	17	
2.5	6145	17.5	
3	3898	18	
3.5	2150	18.5	
4	3834	19	
4.5	4925	19.5	
5	4157	20	
5.5	4137	20.5	
6	3951	21	
6.5	4479	21.5	
7	4930	22	
7.5	5043	22.5	
8	5054	23	
8.5	4762	23.5	
9	4862	24	
9.5	5491	24.5	
10	5648	25	
10.5	5621	25.5	
11	5563	26	
11.4	5493	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

**Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH**

Date: January 11, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 28, 982

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-26
Maximum Depth 12 feet 7 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5549	15.5	
1	6711	16	
1.5	6325	16.5	
2	6178	17	
2.5	5593	17.5	
3	5962	18	
3.5	5964	18.5	
4	5862	19	
4.5	5952	19.5	
5	5548	20	
5.5	3728	20.5	
6	2093	21	
6.5	1962	21.5	
7	4083	22	
7.5	5205	22.5	
8	5285	23	
8.5	5399	23.5	
9	5304	24	
9.5	6604	24.5	
10	7315	25	
10.5	6694	25.5	
11	6588	26	
11.4	6125	26.5	
12	5701	27	
12.5	5342	27.5	
12.7	5273	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 28, 982

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-27

Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4450	15.5	
1	6045	16	
1.5	6222	16.5	
2	6122	17	
2.5	5688	17.5	
3	3279	18	
3.5	2020	18.5	
4	3101	19	
4.5	3617	19.5	
5	4577	20	
5.5	4765	20.5	
6	6103	21	
6.5	7877	21.5	
7	8003	22	
7.5	6625	22.5	
8	5146	23	
8.5	4771	23.5	
9	4030	24	
9.5	4076	24.5	
10	3970	25	
10.5	3662	25.5	
11	3219	26	
11.4	2893	26.5	
12	2567	27	
12.5	3103	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 28, 982

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-28
Maximum Depth 11 feet 11 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4228	15.5	
1	4840	16	
1.5	2861	16.5	
2	2092	17	
2.5	4937	17.5	
3	5523	18	
3.5	6143	18.5	
4	5376	19	
4.5	5851	19.5	
5	6984	20	
5.5	7202	20.5	
6	6516	21	
6.5	5106	21.5	
7	4563	22	
7.5	4635	22.5	
8	5670	23	
8.5	5619	23.5	
9	4997	24	
9.5	4779	24.5	
10	5413	25	
10.5	5673	25.5	
11	6808	26	
11.4	7597	26.5	
11.11	7477	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 28, 982

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =
18,059 counts per 30 sec.

* Shielded (2")

Boring No.: D-29

Maximum Depth 12 feet 1 inch

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4099	15.5	
1	5152	16	
1.5	5748	16.5	
2	5349	17	
2.5	5266	17.5	
3	5393	18	
3.5	4211	18.5	
4	3312	19	
4.5	3811	19.5	
5	6130	20	
5.5	5661	20.5	
6	6412	21	
6.5	6380	21.5	
7	5718	22	
7.5	6042	22.5	
8	6115	23	
8.5	7657	23.5	
9	7945	24	
9.5	6309	24.5	
10	8208	25	
10.5	8531	25.5	
11	5757	26	
11.4	7058	26.5	
12	8718	27	
12.1	7792	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 28, 982

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-30
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4537	15.5	
1	4554	16	
1.5	4934	16.5	
2	4950	17	
2.5	4251	17.5	
3	4240	18	
3.5	5182	18.5	
4	4223	19	
4.5	4735	19.5	
5	5114	20	
5.5	5377	20.5	
6	5329	21	
6.5	5872	21.5	
7	6918	22	
7.5	6267	22.5	
8	5713	23	
8.5	6734	23.5	
9	6784	24	
9.5	7166	24.5	
10	6265	25	
10.5	4952	25.5	
11	4720	26	
11.4	4900	26.5	
12	6347	27	
12.5	7787	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

**Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH**

Date: January 10, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 25,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =
15,894 counts per 30 sec.

* Shielded (1")

Boring No.: D-31
Maximum Depth 11 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3367	15.5	
1	4253	16	
1.5	4602	16.5	
2	4432	17	
2.5	4372	17.5	
3	4525	18	
3.5	4262	18.5	
4	4240	19	
4.5	4425	19.5	
5	4067	20	
5.5	3900	20.5	
6	3799	21	
6.5	3786	21.5	
7	3911	22	
7.5	3935	22.5	
8	3887	23	
8.5	3671	23.5	
9	3409	24	
9.5	2883	24.5	
10	2442	25	
10.5	2555	25.5	
11	3074	26	
11.5	3205	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 10, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 25,000

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-32
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2686	15.5	
1	2848	16	
1.5	2890	16.5	
2	2927	17	
2.5	2930	17.5	
3	3438	18	
3.5	3569	18.5	
4	3729	19	
4.5	3744	19.5	
5	3802	20	
5.5	3820	20.5	
6	3720	21	
6.5	3604	21.5	
7	3279	22	
7.5	2971	22.5	
8	3403	23	
8.5	3643	23.5	
9	3903	24	
9.5	5943	24.5	
10	7300	25	
10.5	7107	25.5	
11	6901	26	
11.5	6747	26.5	
12	7153	27	
12.5	7227	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 10, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 25,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-33
Maximum Depth 10 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2350	15.5	
1	2501	16	
1.5	2518	16.5	
2	2459	17	
2.5	2745	17.5	
3	2458	18	
3.5	2155	18.5	
4	1927	19	
4.5	2147	19.5	
5	2225	20	
5.5	2459	20.5	
6	2417	21	
6.5	2361	21.5	
7	2048	22	
7.5	2014	22.5	
8	1957	23	
8.5	1917	23.5	
9	1880	24	
9.5	1868	24.5	
10	1883	25	
10.5		25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 10, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 25,000

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-34
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2855	15.5	
1	2990	16	
1.5	2655	16.5	
2	2723	17	
2.5	3183	17.5	
3	2891	18	
3.5	3013	18.5	
4	3949	19	
4.5	6399	19.5	
5	17,426	20	
5.5	50,141	20.5	
6	108,780	21	
6.5	37,769	21.5	
7	11,008	22	
7.5	6085	22.5	
8	5264	23	
8.5	5031	23.5	
9	6260	24	
9.5	5640	24.5	
10	5514	25	
10.5	5521	25.5	
11	5625	26	
11.5	5828	26.5	
12	5724	27	
12.5	6468	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 22, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,721

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-34 A
Maximum Depth 12 feet 9 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3893	15.5	
1	3788	16	
1.5	3478	16.5	
2	2930	17	
2.5	2253	17.5	
3	2514	18	
3.5	3761	18.5	
4	4291	19	
4.5	4848	19.5	
5	5710	20	
5.5	5887	20.5	
6	6125	21	
6.5	6188	21.5	
7	6072	22	
7.5	6354	22.5	
8	6428	23	
8.5	6339	23.5	
9	5004	24	
9.5	4032	24.5	
10	4693	25	
10.5	5654	25.5	
11	7036	26	
11.5	8171	26.5	
12	8378	27	
12.5	7828	27.5	
12.9	7483	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 22, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,721

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-34 B
Maximum Depth 11 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3599	15.5	
1	3207	16	
1.5	2627	16.5	
2	2559	17	
2.5	2730	17.5	
3	2978	18	
3.5	3913	18.5	
4	5492	19	
4.5	5674	19.5	
5	5360	20	
5.5	4937	20.5	
6	5458	21	
6.5	5545	21.5	
7	5116	22	
7.5	4338	22.5	
8	4085	23	
8.5	5023	23.5	
9	7742	24	
9.5	8283	24.5	
10	8579	25	
10.5	8730	25.5	
11	8576	26	
11.5	7995	26.5	
11.10	7253	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 22, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,721

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-34 C
Maximum Depth 11 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2828	15.5	
1	2605	16	
1.5	2407	16.5	
2	2945	17	
2.5	4037	17.5	
3	4192	18	
3.5	4906	18.5	
4	6101	19	
4.5	6338	19.5	
5	6703	20	
5.5	7575	20.5	
6	6911	21	
6.5	6270	21.5	
7	4543	22	
7.5	3856	22.5	
8	5278	23	
8.5	5154	23.5	
9	5369	24	
9.5	6842	24.5	
10	6819	25	
10.5	6453	25.5	
11	5965	26	
11.5	5814	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 10, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 25,000

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-35
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3647	15.5	
1	3540	16	
1.5	2966	16.5	
2	1894	17	
2.5	2482	17.5	
3	3988	18	
3.5	3936	18.5	
4	4929	19	
4.5	5725	19.5	
5	5162	20	
5.5	4515	20.5	
6	4476	21	
6.5	4506	21.5	
7	4725	22	
7.5	4401	22.5	
8	4374	23	
8.5	4356	23.5	
9	4169	24	
9.5	4553	24.5	
10	4446	25	
10.5	3990	25.5	
11	3866	26	
11.5	4012	26.5	
12	5083	27	
12.5	6666	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 10, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 25,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-36
 Maximum Depth 10 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3444	15.5	
1	4630	16	
1.5	3861	16.5	
2	2481	17	
2.5	1638	17.5	
3	3844	18	
3.5	6966	18.5	
4	5659	19	
4.5	4307	19.5	
5	4113	20	
5.5	4305	20.5	
6	4470	21	
6.5	4444	21.5	
7	4146	22	
7.5	3695	22.5	
8	4635	23	
8.5	4940	23.5	
9	5370	24	
9.5	5120	24.5	
10	4756	25	
10.5	5028	25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 16, 2002

Technician: J. Ferrans

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-37
Maximum Depth 9 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3821	15.5	
1	3614	16	
1.5	3512	16.5	
2	3683	17	
2.5	3361	17.5	
3	3008	18	
3.5	2743	18.5	
4	2616	19	
4.5	2905	19.5	
5	4848	20	
5.5	7902	20.5	
6	8687	21	
6.5	8208	21.5	
7	7111	22	
7.5	6260	22.5	
8	8965	23	
8.5	8523	23.5	
9	7077	24	
9.5	5466	24.5	
10		25	
10.5		25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 10, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 25,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-37
Maximum Depth 11 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2893	15.5	
1	3556	16	
1.5	3741	16.5	
2	4908	17	
2.5	6789	17.5	
3	6228	18	
3.5	5146	18.5	
4	4533	19	
4.5	4498	19.5	
5	5325	20	
5.5	5661	20.5	
6	5678	21	
6.5	5146	21.5	
7	4250	22	
7.5	3997	22.5	
8	5193	23	
8.5	4991	23.5	
9	5284	24	
9.5	5399	24.5	
10	5331	25	
10.5	4769	25.5	
11	4589	26	
11.5	4575	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 10, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 25,000

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-38
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3385	15.5	
1	4641	16	
1.5	4728	16.5	
2	4512	17	
2.5	4963	17.5	
3	4665	18	
3.5	5202	18.5	
4	4847	19	
4.5	4757	19.5	
5	6010	20	
5.5	5798	20.5	
6	5134	21	
6.5	4716	21.5	
7	4943	22	
7.5	5169	22.5	
8	5741	23	
8.5	5099	23.5	
9	4275	24	
9.5	4270	24.5	
10	4434	25	
10.5	4006	25.5	
11	4064	26	
11.5	3650	26.5	
12	3551	27	
12.5	3944	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 10, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 25,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-39
Maximum Depth 13 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4041	15.5	
1	5435	16	
1.5	6541	16.5	
2	6740	17	
2.5	7090	17.5	
3	7090	18	
3.5	6449	18.5	
4	4743	19	
4.5	5878	19.5	
5	5515	20	
5.5	3811	20.5	
6	2949	21	
6.5	3179	21.5	
7	3786	22	
7.5	4053	22.5	
8	5051	23	
8.5	7237	23.5	
9	8371	24	
9.5	7981	24.5	
10	7564	25	
10.5	7797	25.5	
11	7832	26	
11.5	7537	26.5	
12	8071	27	
12.5	8458	27.5	
13	8689	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 10, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20, 004

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-40
Maximum Depth 11 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4288	15.5	
1	5419	16	
1.5	5444	16.5	
2	5249	17	
2.5	5472	17.5	
3	5231	18	
3.5	5280	18.5	
4	5050	19	
4.5	5136	19.5	
5	6247	20	
5.5	6455	20.5	
6	5976	21	
6.5	6752	21.5	
7	6924	22	
7.5	6538	22.5	
8	5241	23	
8.5	4591	23.5	
9	4007	24	
9.5	4270	24.5	
10	4544	25	
10.5	4481	25.5	
11	4727	26	
11.5	4961	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-41
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2616	15.5	
1	4789	16	
1.5	4903	16.5	
2	4940	17	
2.5	5055	17.5	
3	5599	18	
3.5	5547	18.5	
4	4918	19	
4.5	4257	19.5	
5	4618	20	
5.5	5814	20.5	
6	5860	21	
6.5	4751	21.5	
7	4149	22	
7.5	4293	22.5	
8	4566	23	
8.5	5136	23.5	
9	4932	24	
9.5	5375	24.5	
10	5897	25	
10.5	5966	25.5	
11	5491	26	
11.5	5118	26.5	
12	5220	27	
12.5	6010	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 11, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-42
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3702	15.5	
1	4515	16	
1.5	4283	16.5	
2	4098	17	
2.5	5265	17.5	
3	5616	18	
3.5	5061	18.5	
4	4931	19	
4.5	4797	19.5	
5	4995	20	
5.5	5531	20.5	
6	6532	21	
6.5	7109	21.5	
7	6048	22	
7.5	4158	22.5	
8	3733	23	
8.5	4176	23.5	
9	3867	24	
9.5	3685	24.5	
10	4006	25	
10.5	4361	25.5	
11	4849	26	
11.5	5927	26.5	
12	6452	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

**Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH**

Date: January 11, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-43
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3605	15.5	
1	4406	16	
1.5	4804	16.5	
2	4931	17	
2.5	5338	17.5	
3	5516	18	
3.5	5817	18.5	
4	5340	19	
4.5	4691	19.5	
5	4244	20	
5.5	5490	20.5	
6	5102	21	
6.5	4122	21.5	
7	3907	22	
7.5	3278	22.5	
8	3082	23	
8.5	2738	23.5	
9	2674	24	
9.5	3474	24.5	
10	3981	25	
10.5	4298	25.5	
11	4175	26	
11.5	3839	26.5	
12	4122	27	
12.5	4637	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =
15,894 counts per 30 sec.

* Shielded (1")

Boring No.: D-44
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3862	15.5	
1	4905	16	
1.5	5494	16.5	
2	5372	17	
2.5	4075	17.5	
3	3584	18	
3.5	3933	18.5	
4	4787	19	
4.5	4896	19.5	
5	5065	20	
5.5	5185	20.5	
6	5633	21	
6.5	5701	21.5	
7	5407	22	
7.5	4629	22.5	
8	4449	23	
8.5	4711	23.5	
9	6092	24	
9.5	7140	24.5	
10	7206	25	
10.5	7734	25.5	
11	7723	26	
11.5	7358	26.5	
12	6637	27	
12.5	4567	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-45
 Maximum Depth 13 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3937	15.5	
1	6203	16	
1.5	5874	16.5	
2	3624	17	
2.5	3578	17.5	
3	4454	18	
3.5	5363	18.5	
4	5642	19	
4.5	6370	19.5	
5	6461	20	
5.5	5529	20.5	
6	4739	21	
6.5	6114	21.5	
7	8258	22	
7.5	8674	22.5	
8	8692	23	
8.5	8739	23.5	
9	8175	24	
9.5	7964	24.5	
10	7179	25	
10.5	5191	25.5	
11	4457	26	
11.5	4217	26.5	
12	4934	27	
12.5	5991	27.5	
13	6151	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 11, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-46
Maximum Depth 13 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2634	15.5	
1	4159	16	
1.5	5133	16.5	
2	5698	17	
2.5	5791	17.5	
3	5763	18	
3.5	5667	18.5	
4	5700	19	
4.5	5447	19.5	
5	5853	20	
5.5	5628	20.5	
6	4087	21	
6.5	3356	21.5	
7	4839	22	
7.5	5311	22.5	
8	4516	23	
8.5	5484	23.5	
9	5608	24	
9.5	5372	24.5	
10	5215	25	
10.5	4548	25.5	
11	3966	26	
11.5	3554	26.5	
12	3893	27	
12.5	3907	27.5	
13	3778	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 11, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-47
Maximum Depth 11 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4597	15.5	
1	6120	16	
1.5	6831	16.5	
2	5412	17	
2.5	3198	17.5	
3	2886	18	
3.5	4291	18.5	
4	4188	19	
4.5	5013	19.5	
5	4980	20	
5.5	4876	20.5	
6	5194	21	
6.5	7890	21.5	
7	9544	22	
7.5	9744	22.5	
8	9217	23	
8.5	7630	23.5	
9	6398	24	
9.5	4719	24.5	
10	4160	25	
10.5	4410	25.5	
11	4390	26	
11.5	3910	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-48
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2692	15.5	
1	2594	16	
1.5	3384	16.5	
2	4403	17	
2.5	4866	17.5	
3	5537	18	
3.5	6114	18.5	
4	7465	19	
4.5	8480	19.5	
5	9311	20	
5.5	6879	20.5	
6	5758	21	
6.5	5289	21.5	
7	4662	22	
7.5	4058	22.5	
8	3931	23	
8.5	4464	23.5	
9	4167	24	
9.5	5697	24.5	
10	7432	25	
10.5	8316	25.5	
11	7382	26	
11.5	5627	26.5	
12	5972	27	
12.5	8167	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: J. Farnes

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-49
Maximum Depth 13 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3891	15.5	
1	4696	16	
1.5	3400	16.5	
2	3048	17	
2.5	3412	17.5	
3	4032	18	
3.5	4944	18.5	
4	5056	19	
4.5	4846	19.5	
5	4812	20	
5.5	4974	20.5	
6	6164	21	
6.5	7539	21.5	
7	7532	22	
7.5	7435	22.5	
8	7993	23	
8.5	7613	23.5	
9	7040	24	
9.5	5690	24.5	
10	5600	25	
10.5	5812	25.5	
11	6880	26	
11.5	5585	26.5	
12	4801	27	
12.5	4563	27.5	
13	4663	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-50
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2546	15.5	
1	4110	16	
1.5	4849	16.5	
2	4547	17	
2.5	4806	17.5	
3	4659	18	
3.5	3304	18.5	
4	3618	19	
4.5	4813	19.5	
5	6051	20	
5.5	5519	20.5	
6	4700	21	
6.5	4083	21.5	
7	3874	22	
7.5	3683	22.5	
8	4009	23	
8.5	4066	23.5	
9	4443	24	
9.5	4514	24.5	
10	4693	25	
10.5	4595	25.5	
11	4355	26	
11.5	4069	26.5	
12	3425	27	
12.5	3247	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-51
Maximum Depth 11feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3684	15.5	
1	5034	16	
1.5	5636	16.5	
2	6037	17	
2.5	5791	17.5	
3	5503	18	
3.5	5433	18.5	
4	4279	19	
4.5	2451	19.5	
5	2788	20	
5.5	5027	20.5	
6	5339	21	
6.5	4627	21.5	
7	4724	22	
7.5	5034	22.5	
8	5904	23	
8.5	6110	23.5	
9	5990	24	
9.5	5702	24.5	
10	5070	25	
10.5	4185	25.5	
11	4108	26	
11.5	3114	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 28, 982

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-52
Maximum Depth 12 feet 1 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4677	15.5	
1	7198	16	
1.5	7078	16.5	
2	5984	17	
2.5	5923	17.5	
3	5947	18	
3.5	6102	18.5	
4	6019	19	
4.5	5444	19.5	
5	4259	20	
5.5	4006	20.5	
6	3937	21	
6.5	4027	21.5	
7	4934	22	
7.5	4727	22.5	
8	3984	23	
8.5	3835	23.5	
9	3395	24	
9.5	3303	24.5	
10	3155	25	
10.5	2981	25.5	
11	3142	26	
11.5	3406	26.5	
12	3596	27	
12.1	3601	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-53
Maximum Depth 13feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4065	15.5	
1	5291	16	
1.5	5469	16.5	
2	5145	17	
2.5	4691	17.5	
3	4578	18	
3.5	4417	18.5	
4	3775	19	
4.5	2711	19.5	
5	2471	20	
5.5	2623	20.5	
6	4121	21	
6.5	6268	21.5	
7	7975	22	
7.5	7406	22.5	
8	6639	23	
8.5	6774	23.5	
9	7641	24	
9.5	7226	24.5	
10	6104	25	
10.5	4291	25.5	
11	3787	26	
11.5	3660	26.5	
12	3982	27	
12.5	4170	27.5	
13	4911	28	
13.5	6130	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-54
Maximum Depth 13 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4519	15.5	
1	5563	16	
1.5	5960	16.5	
2	5970	17	
2.5	6041	17.5	
3	6268	18	
3.5	6132	18.5	
4	4659	19	
4.5	3068	19.5	
5	4043	20	
5.5	5540	20.5	
6	5247	21	
6.5	6989	21.5	
7	8033	22	
7.5	6870	22.5	
8	6948	23	
8.5	6721	23.5	
9	5779	24	
9.5	4417	24.5	
10	3489	25	
10.5	3848	25.5	
11	4076	26	
11.5	4292	26.5	
12	4014	27	
12.5	3459	27.5	
13	3258	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-55
Maximum Depth 13 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3618	15.5	
1	4800	16	
1.5	5661	16.5	
2	5397	17	
2.5	3971	17.5	
3	2573	18	
3.5	2196	18.5	
4	2181	19	
4.5	2610	19.5	
5	3551	20	
5.5	4603	20.5	
6	6182	21	
6.5	6318	21.5	
7	5548	22	
7.5	5606	22.5	
8	6394	23	
8.5	8182	23.5	
9	7282	24	
9.5	5762	24.5	
10	6280	25	
10.5	7603	25.5	
11	7164	26	
11.5	6984	26.5	
12	7049	27	
12.5	6598	27.5	
13	5743	28	
13.5	6302	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-56
Maximum Depth 13 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3653	15.5	
1	4251	16	
1.5	5651	16.5	
2	6306	17	
2.5	5583	17.5	
3	4006	18	
3.5	2718	18.5	
4	2801	19	
4.5	3164	19.5	
5	4349	20	
5.5	4142	20.5	
6	4696	21	
6.5	5270	21.5	
7	4640	22	
7.5	4541	22.5	
8	4630	23	
8.5	4551	23.5	
9	4302	24	
9.5	4445	24.5	
10	4377	25	
10.5	4380	25.5	
11	5071	26	
11.5	5407	26.5	
12	5352	27	
12.5	4873	27.5	
13	4746	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: J. Farrens

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-57
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3527	15.5	
1	4667	16	
1.5	4188	16.5	
2	4083	17	
2.5	3054	17.5	
3	2753	18	
3.5	3563	18.5	
4	4526	19	
4.5	4426	19.5	
5	4677	20	
5.5	4671	20.5	
6	4259	21	
6.5	4979	21.5	
7	5733	22	
7.5	6408	22.5	
8	6650	23	
8.5	5369	23.5	
9	4924	24	
9.5	5119	24.5	
10	6216	25	
10.5	7109	25.5	
11	6073	26	
11.5	5459	26.5	
12	5897	27	
12.5	5788	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log
Project No. 32193ZH

Date: January 11, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 28, 982

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-58
Maximum Depth 13 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3528	15.5	
1	4356	16	
1.5	4876	16.5	
2	4731	17	
2.5	4720	17.5	
3	3933	18	
3.5	2801	18.5	
4	2723	19	
4.5	3782	19.5	
5	5830	20	
5.5	8377	20.5	
6	7514	21	
6.5	6443	21.5	
7	5861	22	
7.5	5566	22.5	
8	5773	23	
8.5	6553	23.5	
9	6373	24	
9.5	5986	24.5	
10	5020	25	
10.5	4345	25.5	
11	3998	26	
11.5	4178	26.5	
12	6234	27	
12.5	7387	27.5	
13	6842	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

**Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH**

Date: January 14, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,149

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =
18,059 counts per 30 sec.

* Shielded (2")

Boring No.: D-59
Maximum Depth 12 feet 11 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4267	15.5	
1	4681	16	
1.5	5064	16.5	
2	4869	17	
2.5	4365	17.5	
3	4253	18	
3.5	3141	18.5	
4	3410	19	
4.5	4878	19.5	
5	5992	20	
5.5	5631	20.5	
6	6063	21	
6.5	6398	21.5	
7	5676	22	
7.5	5355	22.5	
8	6185	23	
8.5	5605	23.5	
9	5533	24	
9.5	5975	24.5	
10	7189	25	
10.5	9264	25.5	
11	9767	26	
11.5	9967	26.5	
12	10,123	27	
12.5	9950	27.5	
12.11	9663	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 14, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,149

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-60
Maximum Depth 13 feet 4 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3959	15.5	
1	3733	16	
1.5	3822	16.5	
2	4065	17	
2.5	3728	17.5	
3	5439	18	
3.5	6568	18.5	
4	6350	19	
4.5	5511	19.5	
5	5142	20	
5.5	5934	20.5	
6	6322	21	
6.5	5303	21.5	
7	5945	22	
7.5	5545	22.5	
8	5636	23	
8.5	5372	23.5	
9	3838	24	
9.5	3580	24.5	
10	4236	25	
10.5	7236	25.5	
11	8543	26	
11.5	8547	26.5	
12	8521	27	
12.5	8231	27.5	
13	7757	28	
13.4	7649	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 14, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,149

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-61
Maximum Depth 14 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4504	15.5	
1	5959	16	
1.5	5205	16.5	
2	5061	17	
2.5	5087	17.5	
3	5113	18	
3.5	6215	18.5	
4	6751	19	
4.5	7198	19.5	
5	7423	20	
5.5	6794	20.5	
6	5456	21	
6.5	4576	21.5	
7	5506	22	
7.5	6128	22.5	
8	6006	23	
8.5	6512	23.5	
9	6487	24	
9.5	5836	24.5	
10	4874	25	
10.5	5052	25.5	
11	6605	26	
11.5	6732	26.5	
12	6201	27	
12.5	7338	27.5	
13	8769	28	
13.5	9503	28.5	
14	10,032	29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 14, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,149

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-62
Maximum Depth 13 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3416	15.5	
1	3743	16	
1.5	3024	16.5	
2	3636	17	
2.5	4539	17.5	
3	5153	18	
3.5	5386	18.5	
4	6740	19	
4.5	9731	19.5	
5	8935	20	
5.5	7116	20.5	
6	5405	21	
6.5	3625	21.5	
7	3009	22	
7.5	4267	22.5	
8	6124	23	
8.5	7741	23.5	
9	8749	24	
9.5	9071	24.5	
10	8870	25	
10.5	8188	25.5	
11	6577	26	
11.5	5608	26.5	
12	5873	27	
12.5	5680	27.5	
13	5467	28	
13.5	5081	28.5	
13.10	5106	29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 14, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,149

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-63
Maximum Depth 13 feet 1 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3310	15.5	
1	3817	16	
1.5	4013	16.5	
2	4116	17	
2.5	3193	17.5	
3	2549	18	
3.5	2940	18.5	
4	4446	19	
4.5	5479	19.5	
5	5127	20	
5.5	5745	20.5	
6	5108	21	
6.5	4785	21.5	
7	4574	22	
7.5	4288	22.5	
8	3971	23	
8.5	3935	23.5	
9	3967	24	
9.5	3504	24.5	
10	3274	25	
10.5	3399	25.5	
11	3872	26	
11.5	3963	26.5	
12	4345	27	
12.5	4845	27.5	
13	4891	28	
13.1	4764	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log
Project No. 32193ZH

Date: January 14, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,149

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-64
Maximum Depth 12 feet 1 inch

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3782	15.5	
1	4573	16	
1.5	4525	16.5	
2	4374	17	
2.5	4368	17.5	
3	3645	18	
3.5	3088	18.5	
4	3465	19	
4.5	3783	19.5	
5	2636	20	
5.5	1843	20.5	
6	2022	21	
6.5	3533	21.5	
7	4520	22	
7.5	3982	22.5	
8	3962	23	
8.5	3946	23.5	
9	3719	24	
9.5	3667	24.5	
10	4822	25	
10.5	4943	25.5	
11	4898	26	
11.5	4642	26.5	
12	4854	27	
12.1	5054	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 14, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,149

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/grm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-65
 Maximum Depth 11 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2890	15.5	
1	3888	16	
1.5	4713	16.5	
2	4760	17	
2.5	3976	17.5	
3	3769	18	
3.5	4924	18.5	
4	6034	19	
4.5	6237	19.5	
5	5834	20	
5.5	5566	20.5	
6	4558	21	
6.5	4357	21.5	
7	4483	22	
7.5	4831	22.5	
8	5041	23	
8.5	5111	23.5	
9	4980	24	
9.5	4490	24.5	
10	3491	25	
10.5	3393	25.5	
11	3525	26	
11.5	3802	26.5	
11.10	3368	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 14, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,149

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-66
Maximum Depth 12 feet 9 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4713	15.5	
1	5266	16	
1.5	5208	16.5	
2	5308	17	
2.5	5794	17.5	
3	4037	18	
3.5	3389	18.5	
4	3437	19	
4.5	3430	19.5	
5	5325	20	
5.5	7323	20.5	
6	7432	21	
6.5	7249	21.5	
7	6882	22	
7.5	6345	22.5	
8	5844	23	
8.5	5037	23.5	
9	4647	24	
9.5	4397	24.5	
10	4346	25	
10.5	3882	25.5	
11	3741	26	
11.5	4010	26.5	
12	3831	27	
12.5	3995	27.5	
12.9	3971	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 14, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,149

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-67
 Maximum Depth 13 feet 2 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5152	15.5	
1	6294	16	
1.5	5901	16.5	
2	5045	17	
2.5	5205	17.5	
3	4332	18	
3.5	3890	18.5	
4	5725	19	
4.5	7017	19.5	
5	7999	20	
5.5	8011	20.5	
6	7940	21	
6.5	7299	21.5	
7	6485	22	
7.5	5726	22.5	
8	5117	23	
8.5	4625	23.5	
9	3701	24	
9.5	3365	24.5	
10	3987	25	
10.5	4857	25.5	
11	4061	26	
11.5	4454	26.5	
12	6254	27	
12.5	8063	27.5	
13	9070	28	
13.2	9008	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 14, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,149

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-68
Maximum Depth 12 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5193	15.5	
1	5285	16	
1.5	5163	16.5	
2	4561	17	
2.5	3673	17.5	
3	3717	18	
3.5	4948	18.5	
4	5010	19	
4.5	5521	19.5	
5	7272	20	
5.5	7752	20.5	
6	7567	21	
6.5	7925	21.5	
7	6789	22	
7.5	5085	22.5	
8	4424	23	
8.5	4944	23.5	
9	6363	24	
9.5	6964	24.5	
10	7329	25	
10.5	6159	25.5	
11	5427	26	
11.5	5233	26.5	
12	5322	27	
12.10	5044	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 14, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,149

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-69
 Maximum Depth 14 feet 4 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4680	15.5	
1	4913	16	
1.5	6055	16.5	
2	5062	17	
2.5	3214	17.5	
3	3312	18	
3.5	4332	18.5	
4	3598	19	
4.5	2721	19.5	
5	2869	20	
5.5	2903	20.5	
6	3599	21	
6.5	4038	21.5	
7	3792	22	
7.5	3787	22.5	
8	3944	23	
8.5	4841	23.5	
9	4667	24	
9.5	5017	24.5	
10	5959	25	
10.5	6811	25.5	
11	7884	26	
11.5	7581	26.5	
12	7666	27	
12.5	6126	27.5	
13	5985	28	
13.5	7266	28.5	
14	7731	29	
14.4	7524	29.5	
15		30	

Lakeshore East Site

Down Hole Field Log
Project No. 32193ZH

Date: January 14, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,149

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-70
Maximum Depth 13 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4961	15.5	
1	5051	16	
1.5	5012	16.5	
2	5046	17	
2.5	6802	17.5	
3	7054	18	
3.5	5992	18.5	
4	5857	19	
4.5	6048	19.5	
5	5360	20	
5.5	5237	20.5	
6	6854	21	
6.5	7511	21.5	
7	8007	22	
7.5	8126	22.5	
8	7932	23	
8.5	7231	23.5	
9	7308	24	
9.5	7508	24.5	
10	8546	25	
10.5	9210	25.5	
11	8233	26	
11.5	6047	26.5	
12	4751	27	
12.5	4480	27.5	
13	5536	28	
13.5	6529	28.5	
13.10	7437	29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 14, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,149

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-71
 Maximum Depth 13 feet 5inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	11,458	15.5	
1	7271	16	
1.5	8573	16.5	
2	11,586	17	
2.5	12,142	17.5	
3	12,396	18	
3.5	13,553	18.5	
4	19,765	19	
4.5	18,200	19.5	
5	19,204	20	
5.5	18,306	20.5	
6	21,517	21	
6.5	22,734	21.5	
7	26,375	22	
7.5	36,720	22.5	
8	92,897	23	
8.5	345,308	23.5	
9	610,257	24	
9.5	352,892	24.5	
10	137,760	25	
10.5	35,6565	25.5	
11	18,924	26	
11.5	12,787	26.5	
12	17,194	27	
12.5	10,927	27.5	
13	8837	28	
13.5	9749	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 23, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,067

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-71 A
Maximum Depth 13 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4729	15.5	
1	5100	16	
1.5	5338	16.5	
2	5676	17	
2.5	5129	17.5	
3	4183	18	
3.5	6760	18.5	
4	12,480	19	
4.5	10,017	19.5	
5	6840	20	
5.5	7468	20.5	
6	9715	21	
6.5	10,344	21.5	
7	10,270	22	
7.5	8749	22.5	
8	6152	23	
8.5	4957	23.5	
9	4471	24	
9.5	4599	24.5	
10	5061	25	
10.5	5046	25.5	
11	4376	26	
11.5	3782	26.5	
12	3568	27	
12.5	3826	27.5	
13	4289	28	
13.5	5607	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 23, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,067

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-71 B
Maximum Depth 11 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4813	15.5	
1	5471	16	
1.5	6412	16.5	
2	5956	17	
2.5	6336	17.5	
3	7216	18	
3.5	7642	18.5	
4	9645	19	
4.5	9746	19.5	
5	8231	20	
5.5	6643	20.5	
6	6314	21	
6.5	7123	21.5	
7	8138	22	
7.5	8470	22.5	
8	8682	23	
8.5	8607	23.5	
9	8496	24	
9.5	7844	24.5	
10	8269	25	
10.5	9006	25.5	
11	8955	26	
11.5	8821	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 23, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,067

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-71 C
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4754	15.5	
1	5267	16	
1.5	5207	16.5	
2	5117	17	
2.5	5747	17.5	
3	5918	18	
3.5	4875	18.5	
4	4338	19	
4.5	5717	19.5	
5	7511	20	
5.5	7920	20.5	
6	8725	21	
6.5	9984	21.5	
7	11,700	22	
7.5	15,567	22.5	
8	9983	23	
8.5	7459	23.5	
9	7693	24	
9.5	7997	24.5	
10	9466	25	
10.5	15,060	25.5	
11	17,036	26	
11.5	11,873	26.5	
12	9387	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 23, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,067

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-71 D
Maximum Depth 13 feet 2 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5059	15.5	
1	5109	16	
1.5	4551	16.5	
2	5456	17	
2.5	5975	17.5	
3	6672	18	
3.5	7973	18.5	
4	8164	19	
4.5	7754	19.5	
5	7573	20	
5.5	6627	20.5	
6	6776	21	
6.5	12,008	21.5	
7	12,986	22	
7.5	24,891	22.5	
8	87,027	23	
8.5	74,595	23.5	
9	24,520	24	
9.5	13,199	24.5	
10	10,551	25	
10.5	9963	25.5	
11	9290	26	
11.5	8717	26.5	
12	7321	27	
12.5	7139	27.5	
13	7567	28	
13.2	7214	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 23, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,067

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-71 E
Maximum Depth 13 feet 4 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5856	15.5	
1	5983	16	
1.5	5904	16.5	
2	5813	17	
2.5	5107	17.5	
3	4813	18	
3.5	5425	18.5	
4	6716	19	
4.5	7072	19.5	
5	6757	20	
5.5	6257	20.5	
6	5918	21	
6.5	6598	21.5	
7	7223	22	
7.5	8429	22.5	
8	9196	23	
8.5	9068	23.5	
9	9330	24	
9.5	9621	24.5	
10	9533	25	
10.5	9820	25.5	
11	9442	26	
11.5	9331	26.5	
12	9339	27	
12.5	7698	27.5	
13	6831	28	
13.4	7021	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 14, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,149

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-72
Maximum Depth 13 feet 9 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4464	15.5	
1	4046	16	
1.5	3884	16.5	
2	3610	17	
2.5	3917	17.5	
3	4021	18	
3.5	4516	18.5	
4	5037	19	
4.5	5697	19.5	
5	6188	20	
5.5	6481	20.5	
6	6638	21	
6.5	6734	21.5	
7	4624	22	
7.5	2560	22.5	
8	2398	23	
8.5	3349	23.5	
9	4398	24	
9.5	5289	24.5	
10	5435	25	
10.5	5503	25.5	
11	5139	26	
11.5	4333	26.5	
12	4542	27	
12.5	4969	27.5	
13	5350	28	
13.9	6296	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,323

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-73
Maximum Depth 13 feet 11 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3940	15.5	
1	4628	16	
1.5	5016	16.5	
2	5345	17	
2.5	6106	17.5	
3	8550	18	
3.5	11,059	18.5	
4	8280	19	
4.5	6127	19.5	
5	5955	20	
5.5	4494	20.5	
6	4581	21	
6.5	4745	21.5	
7	4645	22	
7.5	5191	22.5	
8	5270	23	
8.5	5050	23.5	
9	5165	24	
9.5	4537	24.5	
10	3178	25	
10.5	2584	25.5	
11	2361	26	
11.5	2222	26.5	
12	2232	27	
12.5	2684	27.5	
13	4854	28	
13.5	6669	28.5	
13.11	6701	29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,323

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-74
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4217	15.5	
1	5828	16	
1.5	6634	16.5	
2	7081	17	
2.5	7144	17.5	
3	6632	18	
3.5	5964	18.5	
4	5993	19	
4.5	6321	19.5	
5	5802	20	
5.5	5461	20.5	
6	4973	21	
6.5	4634	21.5	
7	5549	22	
7.5	6132	22.5	
8	6232	23	
8.5	5648	23.5	
9	5592	24	
9.5	5597	24.5	
10	5325	25	
10.5	5371	25.5	
11	5400	26	
11.5	6261	26.5	
12	6881	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,323

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-75
Maximum Depth 12 feet 4 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5439	15.5	
1	6239	16	
1.5	6536	16.5	
2	6920	17	
2.5	5931	17.5	
3	4352	18	
3.5	5036	18.5	
4	6505	19	
4.5	6727	19.5	
5	6158	20	
5.5	5878	20.5	
6	4794	21	
6.5	4024	21.5	
7	3912	22	
7.5	3941	22.5	
8	4921	23	
8.5	5894	23.5	
9	5705	24	
9.5	4903	24.5	
10	4706	25	
10.5	4184	25.5	
11	4023	26	
11.5	4021	26.5	
12	5098	27	
12.4	5044	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,323

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-76
Maximum Depth 13 feet 1 inch

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5174	15.5	
1	5486	16	
1.5	5736	16.5	
2	6048	17	
2.5	5932	17.5	
3	5884	18	
3.5	5679	18.5	
4	5699	19	
4.5	6499	19.5	
5	7276	20	
5.5	8349	20.5	
6	9088	21	
6.5	8537	21.5	
7	6486	22	
7.5	4765	22.5	
8	3437	23	
8.5	3518	23.5	
9	4433	24	
9.5	5155	24.5	
10	6404	25	
10.5	6335	25.5	
11	5339	26	
11.5	4881	26.5	
12	4984	27	
12.5	5359	27.5	
13	6151	28	
13.1	6266	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,323

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-77
Maximum Depth 14 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5668	15.5	
1	5911	16	
1.5	5934	16.5	
2	5381	17	
2.5	4026	17.5	
3	3636	18	
3.5	6043	18.5	
4	9054	19	
4.5	9816	19.5	
5	11,784	20	
5.5	18,754	20.5	
6	37,886	21	
6.5	19,156	21.5	
7	8990	22	
7.5	6738	22.5	
8	7940	23	
8.5	8295	23.5	
9	8164	24	
9.5	5873	24.5	
10	4798	25	
10.5	4605	25.5	
11	4225	26	
11.5	5233	26.5	
12	7711	27	
12.5	8165	27.5	
13	6162	28	
13.5	4993	28.5	
14	4611	29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 22, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,721

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-77 A
Maximum Depth 13 feet 2 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4195	15.5	
1	4585	16	
1.5	4756	16.5	
2	3753	17	
2.5	3013	17.5	
3	2635	18	
3.5	2751	18.5	
4	3421	19	
4.5	6420	19.5	
5	8714	20	
5.5	9591	20.5	
6	10,786	21	
6.5	9938	21.5	
7	5956	22	
7.5	4905	22.5	
8	4687	23	
8.5	5344	23.5	
9	5864	24	
9.5	6215	24.5	
10	7613	25	
10.5	8182	25.5	
11	6047	26	
11.5	6545	26.5	
12	7640	27	
12.5	7524	27.5	
13	6714	28	
13.2	6732	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 22, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,721

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-77 B
Maximum Depth 13 feet 2 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5053	15.5	
1	6146	16	
1.5	5906	16.5	
2	4628	17	
2.5	3192	17.5	
3	3575	18	
3.5	4374	18.5	
4	5885	19	
4.5	6118	19.5	
5	4681	20	
5.5	3862	20.5	
6	3972	21	
6.5	4166	21.5	
7	4661	22	
7.5	4070	22.5	
8	4361	23	
8.5	4810	23.5	
9	4266	24	
9.5	4356	24.5	
10	4544	25	
10.5	4888	25.5	
11	4578	26	
11.5	4554	26.5	
12	4614	27	
12.5	5172	27.5	
13	7253	28	
13.2	7276	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 22, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,721

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-77 C
 Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4393	15.5	
1	5039	16	
1.5	4705	16.5	
2	3344	17	
2.5	3753	17.5	
3	6384	18	
3.5	7623	18.5	
4	7755	19	
4.5	8166	19.5	
5	7308	20	
5.5	6530	20.5	
6	5555	21	
6.5	5000	21.5	
7	4911	22	
7.5	4158	22.5	
8	4567	23	
8.5	5174	23.5	
9	7125	24	
9.5	7025	24.5	
10	6388	25	
10.5	5730	25.5	
11	5363	26	
11.5	6298	26.5	
12	7165	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,323

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-78
Maximum Depth 13 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4494	15.5	
1	5040	16	
1.5	5357	16.5	
2	5332	17	
2.5	5279	17.5	
3	5271	18	
3.5	5402	18.5	
4	5504	19	
4.5	5954	19.5	
5	6387	20	
5.5	6573	20.5	
6	7777	21	
6.5	7536	21.5	
7	6487	22	
7.5	6301	22.5	
8	5823	23	
8.5	6158	23.5	
9	7651	24	
9.5	7877	24.5	
10	7577	25	
10.5	8022	25.5	
11	8406	26	
11.5	7985	26.5	
12	7777	27	
12.5	7279	27.5	
13	5284	28	
13.5	4126	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,323

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-79
 Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5465	15.5	
1	7150	16	
1.5	6751	16.5	
2	5817	17	
2.5	5059	17.5	
3	5001	18	
3.5	5397	18.5	
4	6516	19	
4.5	7148	19.5	
5	6018	20	
5.5	6309	20.5	
6	5795	21	
6.5	5726	21.5	
7	5485	22	
7.5	5159	22.5	
8	5027	23	
8.5	6439	23.5	
9	6705	24	
9.5	5357	24.5	
10	5516	25	
10.5	5157	25.5	
11	4987	26	
11.5	4647	26.5	
12	4147	27	
12.5	4667	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,323

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-80
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4878	15.5	
1	6118	16	
1.5	6518	16.5	
2	5591	17	
2.5	5104	17.5	
3	4955	18	
3.5	4891	18.5	
4	5172	19	
4.5	5477	19.5	
5	6570	20	
5.5	7865	20.5	
6	7586	21	
6.5	6768	21.5	
7	7301	22	
7.5	6683	22.5	
8	6567	23	
8.5	6487	23.5	
9	7162	24	
9.5	8253	24.5	
10	8559	25	
10.5	8151	25.5	
11	7097	26	
11.5	5739	26.5	
12	5185	27	
12.5	5280	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,323

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-81
Maximum Depth 13 feet 9 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4750	15.5	
1	5170	16	
1.5	5343	16.5	
2	6652	17	
2.5	7321	17.5	
3	6803	18	
3.5	5937	18.5	
4	5703	19	
4.5	5576	19.5	
5	5448	20	
5.5	6402	20.5	
6	5714	21	
6.5	6233	21.5	
7	6627	22	
7.5	5901	22.5	
8	4976	23	
8.5	4597	23.5	
9	4739	24	
9.5	4946	24.5	
10	4666	25	
10.5	5078	25.5	
11	4957	26	
11.5	4658	26.5	
12	4216	27	
12.5	4457	27.5	
13	5768	28	
13.5	5668	28.5	
13.9	6009	29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,323

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-82
Maximum Depth 13 feet 8 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4314	15.5	
1	5310	16	
1.5	5003	16.5	
2	5619	17	
2.5	7212	17.5	
3	8112	18	
3.5	7937	18.5	
4	6312	19	
4.5	5364	19.5	
5	5463	20	
5.5	7352	20.5	
6	6735	21	
6.5	5585	21.5	
7	6039	22	
7.5	5914	22.5	
8	5816	23	
8.5	5439	23.5	
9	5118	24	
9.5	5669	24.5	
10	6917	25	
10.5	7669	25.5	
11	7581	26	
11.5	6987	26.5	
12	6473	27	
12.5	6737	27.5	
13	6908	28	
13.5	7301	28.5	
13.8	7393	29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,323

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-83
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5295	15.5	
1	6032	16	
1.5	5283	16.5	
2	5007	17	
2.5	4916	17.5	
3	4039	18	
3.5	2982	18.5	
4	3326	19	
4.5	5587	19.5	
5	6425	20	
5.5	5973	20.5	
6	5518	21	
6.5	5034	21.5	
7	5178	22	
7.5	5850	22.5	
8	6185	23	
8.5	5706	23.5	
9	5451	24	
9.5	5273	24.5	
10	5058	25	
10.5	4769	25.5	
11	4438	26	
11.5	3894	26.5	
12	3402	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,323

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-84
Maximum Depth 11 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4024	15.5	
1	4772	16	
1.5	4572	16.5	
2	4681	17	
2.5	4683	17.5	
3	4861	18	
3.5	4876	18.5	
4	5533	19	
4.5	5921	19.5	
5	5463	20	
5.5	5043	20.5	
6	5201	21	
6.5	5419	21.5	
7	6668	22	
7.5	7474	22.5	
8	7278	23	
8.5	5729	23.5	
9	5171	24	
9.5	6011	24.5	
10	6518	25	
10.5	6046	25.5	
11	6007	26	
11.5	6615	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,323

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-85
 Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4179	15.5	
1	4941	16	
1.5	4995	16.5	
2	5305	17	
2.5	5283	17.5	
3	5348	18	
3.5	5704	18.5	
4	7082	19	
4.5	7340	19.5	
5	7049	20	
5.5	6580	20.5	
6	5991	21	
6.5	5363	21.5	
7	4809	22	
7.5	4673	22.5	
8	5621	23	
8.5	5088	23.5	
9	3891	24	
9.5	4568	24.5	
10	6583	25	
10.5	7759	25.5	
11	7743	26	
11.5	7643	26.5	
12	7175	27	
12.5	7476	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 14, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 25,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-86
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3492	15.5	
1	4394	16	
1.5	3688	16.5	
2	3561	17	
2.5	3579	17.5	
3	4026	18	
3.5	4358	18.5	
4	6601	19	
4.5	8748	19.5	
5	9799	20	
5.5	9607	20.5	
6	8563	21	
6.5	6963	21.5	
7	6049	22	
7.5	5300	22.5	
8	4836	23	
8.5	4422	23.5	
9	4272	24	
9.5	4182	24.5	
10	3838	25	
10.5	3856	25.5	
11	4406	26	
11.5	4700	26.5	
12	4600	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 14, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 25,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-87
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3703	15.5	
1	5267	16	
1.5	4603	16.5	
2	4375	17	
2.5	4505	17.5	
3	6265	18	
3.5	6960	18.5	
4	7066	19	
4.5	7568	19.5	
5	7181	20	
5.5	5853	20.5	
6	4745	21	
6.5	4701	21.5	
7	6003	22	
7.5	5792	22.5	
8	6132	23	
8.5	7088	23.5	
9	7514	24	
9.5	7661	24.5	
10	7641	25	
10.5	7864	25.5	
11	8329	26	
11.5	7880	26.5	
12	5977	27	
12.5	6026	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 14, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 25,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-88
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4054	15.5	
1	4802	16	
1.5	4857	16.5	
2	5278	17	
2.5	5102	17.5	
3	5232	18	
3.5	4831	18.5	
4	3769	19	
4.5	3029	19.5	
5	4173	20	
5.5	5966	20.5	
6	6781	21	
6.5	6603	21.5	
7	6798	22	
7.5	5923	22.5	
8	5092	23	
8.5	3836	23.5	
9	3696	24	
9.5	3468	24.5	
10	3773	25	
10.5	3709	25.5	
11	3393	26	
11.5	4065	26.5	
12	5072	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 14, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 25,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-89
Maximum Depth 11 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3883	15.5	
1	4547	16	
1.5	5133	16.5	
2	4872	17	
2.5	3289	17.5	
3	3070	18	
3.5	3787	18.5	
4	5571	19	
4.5	6671	19.5	
5	6110	20	
5.5	6303	20.5	
6	6751	21	
6.5	7049	21.5	
7	5582	22	
7.5	5452	22.5	
8	6197	23	
8.5	7887	23.5	
9	8799	24	
9.5	9379	24.5	
10	9053	25	
10.5	8521	25.5	
11	7366	26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 14, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 25,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-90
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4062	15.5	
1	5474	16	
1.5	6553	16.5	
2	4716	17	
2.5	4247	17.5	
3	4948	18	
3.5	4737	18.5	
4	4850	19	
4.5	4168	19.5	
5	4025	20	
5.5	4780	20.5	
6	6050	21	
6.5	7521	21.5	
7	7346	22	
7.5	6225	22.5	
8	5630	23	
8.5	5729	23.5	
9	6269	24	
9.5	6529	24.5	
10	6350	25	
10.5	5859	25.5	
11	5884	26	
11.5	6109	26.5	
12	5909	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 14, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 25,000

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-91
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3134	15.5	
1	3597	16	
1.5	4824	16.5	
2	5851	17	
2.5	5802	17.5	
3	6332	18	
3.5	6663	18.5	
4	7174	19	
4.5	6669	19.5	
5	5729	20	
5.5	5911	20.5	
6	6183	21	
6.5	6384	21.5	
7	6481	22	
7.5	7112	22.5	
8	7581	23	
8.5	7549	23.5	
9	6930	24	
9.5	6560	24.5	
10	7153	25	
10.5	8273	25.5	
11	8623	26	
11.5	8752	26.5	
12	8614	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 14, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 25,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-92
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4073	15.5	
1	4372	16	
1.5	4470	16.5	
2	4086	17	
2.5	4180	17.5	
3	3887	18	
3.5	3535	18.5	
4	3802	19	
4.5	3616	19.5	
5	3690	20	
5.5	3927	20.5	
6	4878	21	
6.5	6138	21.5	
7	7257	22	
7.5	6902	22.5	
8	7533	23	
8.5	8649	23.5	
9	7253	24	
9.5	8639	24.5	
10	12,901	25	
10.5	7634	25.5	
11	6899	26	
11.5	7471	26.5	
12	7391	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 14, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 25,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =
15,894 counts per 30 sec.

* Shielded (1")

Boring No.: D-93
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3821	15.5	
1	4414	16	
1.5	4916	16.5	
2	4553	17	
2.5	5215	17.5	
3	6100	18	
3.5	7412	18.5	
4	7799	19	
4.5	8179	19.5	
5	8928	20	
5.5	11,450	20.5	
6	12,018	21	
6.5	9363	21.5	
7	7792	22	
7.5	6982	22.5	
8	5722	23	
8.5	4467	23.5	
9	4248	24	
9.5	4777	24.5	
10	6256	25	
10.5	7139	25.5	
11	6607	26	
11.5	5879	26.5	
12	5898	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 14, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 25,000

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-94
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	7695	15.5	
1	9256	16	
1.5	7793	16.5	
2	9718	17	
2.5	18,709	17.5	
3	56,082	18	
3.5	69,116	18.5	
4	21,089	19	
4.5	8605	19.5	
5	5523	20	
5.5	5576	20.5	
6	6139	21	
6.5	6093	21.5	
7	6239	22	
7.5	6669	22.5	
8	6805	23	
8.5	7194	23.5	
9	7777	24	
9.5	8117	24.5	
10	7838	25	
10.5	6237	25.5	
11	5971	26	
11.5	6982	26.5	
12	7809	27	
12.5	8811	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 22, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,721

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-94 A
Maximum Depth 13 feet 4 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	6602	15.5	
1	7897	16	
1.5	9083	16.5	
2	9263	17	
2.5	13,745	17.5	
3	37,945	18	
3.5	75,027	18.5	
4	36,098	19	
4.5	16,175	19.5	
5	9200	20	
5.5	7482	20.5	
6	6305	21	
6.5	6142	21.5	
7	7504	22	
7.5	9130	22.5	
8	9492	23	
8.5	9192	23.5	
9	8446	24	
9.5	8419	24.5	
10	8460	25	
10.5	8110	25.5	
11	7640	26	
11.5	8128	26.5	
12	8757	27	
12.5	8930	27.5	
13	9144	28	
13.4	9046	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 22, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,721

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-94 B
Maximum Depth 11 feet 8 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5609	15.5	
1	6140	16	
1.5	5275	16.5	
2	4381	17	
2.5	4289	17.5	
3	4039	18	
3.5	4306	18.5	
4	5519	19	
4.5	5838	19.5	
5	6024	20	
5.5	5692	20.5	
6	5325	21	
6.5	4864	21.5	
7	5223	22	
7.5	5284	22.5	
8	4862	23	
8.5	5121	23.5	
9	6243	24	
9.5	7935	24.5	
10	7689	25	
10.5	6959	25.5	
11	6860	26	
11.5	6698	26.5	
11.8	6547	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 22, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,721

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-94 C
 Maximum Depth 13 feet 4 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5575	15.5	
1	6240	16	
1.5	6590	16.5	
2	7576	17	
2.5	5756	17.5	
3	5745	18	
3.5	6934	18.5	
4	6386	19	
4.5	6323	19.5	
5	6524	20	
5.5	6671	20.5	
6	7254	21	
6.5	7313	21.5	
7	7001	22	
7.5	6996	22.5	
8	6871	23	
8.5	7454	23.5	
9	6822	24	
9.5	7097	24.5	
10	7360	25	
10.5	7763	25.5	
11	8403	26	
11.5	8684	26.5	
12	8473	27	
12.5	8101	27.5	
13	7982	28	
13.4	8201	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 22, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-94 D
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	10,855	15.5	
1	21,337	16	
1.5	47,881	16.5	
2	197,267	17	
2.5	108,328	17.5	
3	28,281	18	
3.5	11,672	18.5	
4	8485	19	
4.5	8202	19.5	
5	8649	20	
5.5	7998	20.5	
6	7598	21	
6.5	8110	21.5	
7	8134	22	
7.5	7577	22.5	
8	7140	23	
8.5	6255	23.5	
9	6216	24	
9.5	6701	24.5	
10	7383	25	
10.5	7797	25.5	
11	7592	26	
11.5	7472	26.5	
12	7831	27	
12.5	7900	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 22, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-94 E
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2842	15.5	
1	7749	16	
1.5	7685	16.5	
2	6864	17	
2.5	5599	17.5	
3	7210	18	
3.5	7499	18.5	
4	7235	19	
4.5	7464	19.5	
5	7557	20	
5.5	7036	20.5	
6	7168	21	
6.5	7273	21.5	
7	6430	22	
7.5	6026	22.5	
8	6628	23	
8.5	7266	23.5	
9	7174	24	
9.5	7510	24.5	
10	7930	25	
10.5	7490	25.5	
11	7415	26	
11.5	7234	26.5	
12	7358	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log
Project No. 32193ZH

Date: January 22, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,721

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-94 E
Maximum Depth 13 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5822	15.5	
1	7237	16	
1.5	7331	16.5	
2	7178	17	
2.5	6975	17.5	
3	5560	18	
3.5	4536	18.5	
4	4255	19	
4.5	4083	19.5	
5	4498	20	
5.5	4617	20.5	
6	3782	21	
6.5	3339	21.5	
7	3651	22	
7.5	3990	22.5	
8	4143	23	
8.5	4750	23.5	
9	5929	24	
9.5	5767	24.5	
10	6984	25	
10.5	7623	25.5	
11	8125	26	
11.5	8136	26.5	
12	9065	27	
12.5	9142	27.5	
13	9551	28	
13.5	10,502	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 22, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,721

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-94 F
Maximum Depth 13 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5822	15.5	
1	7237	16	
1.5	7331	16.5	
2	7178	17	
2.5	6975	17.5	
3	5560	18	
3.5	4536	18.5	
4	4255	19	
4.5	4083	19.5	
5	4498	20	
5.5	4617	20.5	
6	3782	21	
6.5	3339	21.5	
7	3651	22	
7.5	3990	22.5	
8	4143	23	
8.5	4750	23.5	
9	5929	24	
9.5	5767	24.5	
10	6984	25	
10.5	7623	25.5	
11	8125	26	
11.5	8136	26.5	
12	9065	27	
12.5	9142	27.5	
13	9551	28	
13.5	10,502	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-95
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4094	15.5	
1	5109	16	
1.5	5112	16.5	
2	5695	17	
2.5	5554	17.5	
3	5890	18	
3.5	5801	18.5	
4	6450	19	
4.5	6371	19.5	
5	5810	20	
5.5	4906	20.5	
6	4698	21	
6.5	4637	21.5	
7	4210	22	
7.5	4443	22.5	
8	4711	23	
8.5	4675	23.5	
9	4544	24	
9.5	4391	24.5	
10	4767	25	
10.5	5149	25.5	
11	5707	26	
11.5	5884	26.5	
12	6754	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-96
 Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3554	15.5	
1	4188	16	
1.5	4127	16.5	
2	3749	17	
2.5	3912	17.5	
3	4170	18	
3.5	5037	18.5	
4	5916	19	
4.5	6185	19.5	
5	6136	20	
5.5	6691	20.5	
6	6553	21	
6.5	5661	21.5	
7	4321	22	
7.5	4695	22.5	
8	5666	23	
8.5	5129	23.5	
9	4560	24	
9.5	4020	24.5	
10	4651	25	
10.5	6506	25.5	
11	6917	26	
11.5	5907	26.5	
12	5100	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-97
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3567	15.5	
1	4388	16	
1.5	4270	16.5	
2	3660	17	
2.5	2827	17.5	
3	2429	18	
3.5	2185	18.5	
4	2001	19	
4.5	2551	19.5	
5	2804	20	
5.5	2899	20.5	
6	3160	21	
6.5	3701	21.5	
7	4047	22	
7.5	4129	22.5	
8	4372	23	
8.5	5702	23.5	
9	5034	24	
9.5	5587	24.5	
10	5737	25	
10.5	5648	25.5	
11	5177	26	
11.5	5734	26.5	
12	5898	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =
 15,894 counts per 30 sec.

* Shielded (1")

Boring No.: D-98
 Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3875	15.5	
1	4032	16	
1.5	3711	16.5	
2	3398	17	
2.5	3594	17.5	
3	3504	18	
3.5	3716	18.5	
4	3929	19	
4.5	3815	19.5	
5	3389	20	
5.5	3292	20.5	
6	3332	21	
6.5	3317	21.5	
7	3620	22	
7.5	3813	22.5	
8	4303	23	
8.5	5107	23.5	
9	5620	24	
9.5	5287	24.5	
10	6283	25	
10.5	5744	25.5	
11	5174	26	
11.5	5284	26.5	
12	5694	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-99
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4529	15.5	
1	5465	16	
1.5	4631	16.5	
2	5532	17	
2.5	6414	17.5	
3	6214	18	
3.5	5265	18.5	
4	4776	19	
4.5	4462	19.5	
5	4782	20	
5.5	5187	20.5	
6	5435	21	
6.5	5739	21.5	
7	5887	22	
7.5	5726	22.5	
8	5428	23	
8.5	4939	23.5	
9	4637	24	
9.5	4793	24.5	
10	4863	25	
10.5	4841	25.5	
11	5019	26	
11.5	5906	26.5	
12	7017	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Dumas

Instrument Model No.: Ludium 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-100
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4289	15.5	
1	4927	16	
1.5	5338	16.5	
2	5360	17	
2.5	4547	17.5	
3	4505	18	
3.5	4723	18.5	
4	4717	19	
4.5	4962	19.5	
5	5243	20	
5.5	5412	20.5	
6	5917	21	
6.5	6998	21.5	
7	7617	22	
7.5	8622	22.5	
8	9310	23	
8.5	9405	23.5	
9	9537	24	
9.5	8923	24.5	
10	7575	25	
10.5	8046	25.5	
11	8764	26	
11.5	8487	26.5	
12	8304	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-101
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4213	15.5	
1	5073	16	
1.5	5773	16.5	
2	6521	17	
2.5	5278	17.5	
3	4547	18	
3.5	4915	18.5	
4	6162	19	
4.5	7756	19.5	
5	8536	20	
5.5	8232	20.5	
6	7800	21	
6.5	7907	21.5	
7	7460	22	
7.5	7054	22.5	
8	7364	23	
8.5	7150	23.5	
9	6244	24	
9.5	5879	24.5	
10	5458	25	
10.5	5079	25.5	
11	4128	26	
11.5	4195	26.5	
12	5807	27	
12.5	6705	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-102
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5658	15.5	
1	5629	16	
1.5	7558	16.5	
2	6345	17	
2.5	5822	17.5	
3	6099	18	
3.5	6936	18.5	
4	7196	19	
4.5	6354	19.5	
5	6274	20	
5.5	6562	20.5	
6	6757	21	
6.5	7098	21.5	
7	7359	22	
7.5	7303	22.5	
8	7181	23	
8.5	6332	23.5	
9	6366	24	
9.5	6616	24.5	
10	5156	25	
10.5	5341	25.5	
11	5766	26	
11.5	7158	26.5	
12	7609	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-103
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5100	15.5	
1	5563	16	
1.5	5458	16.5	
2	4684	17	
2.5	4247	17.5	
3	4507	18	
3.5	5340	18.5	
4	5930	19	
4.5	6461	19.5	
5	7290	20	
5.5	7229	20.5	
6	6872	21	
6.5	7370	21.5	
7	7464	22	
7.5	7523	22.5	
8	6736	23	
8.5	7335	23.5	
9	7859	24	
9.5	7664	24.5	
10	7859	25	
10.5	7664	25.5	
11	7476	26	
11.5	7224	26.5	
12	7522	27	
12.5	7537	27.5	
13	7853	28	
13.5	7846	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Dumas

Instrument Model No.: Ludum 2221

Operational Check: 28,000

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =
 15,894 counts per 30 sec.

* Shielded (1°)

Boring No.: D-104
 Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3270	15.5	
1	4985	16	
1.5	4922	16.5	
2	5102	17	
2.5	7243	17.5	
3	6510	18	
3.5	7221	18.5	
4	7371	19	
4.5	6722	19.5	
5	6355	20	
5.5	5574	20.5	
6	4815	21	
6.5	4590	21.5	
7	4211	22	
7.5	4257	22.5	
8	4271	23	
8.5	4232	23.5	
9	3540	24	
9.5	3762	24.5	
10	5481	25	
10.5	5702	25.5	
11	5163	26	
11.5	5054	26.5	
12	5931	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-105
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4169	15.5	
1	4696	16	
1.5	4893	16.5	
2	4626	17	
2.5	4530	17.5	
3	5632	18	
3.5	7657	18.5	
4	7003	19	
4.5	6657	19.5	
5	5484	20	
5.5	5413	20.5	
6	6023	21	
6.5	6161	21.5	
7	6145	22	
7.5	5791	22.5	
8	5652	23	
8.5	5220	23.5	
9	5012	24	
9.5	5190	24.5	
10	4984	25	
10.5	4943	25.5	
11	4964	26	
11.5	4597	26.5	
12	5396	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =
15,894 counts per 30 sec.

* Shielded (1")

Boring No.: D-106
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3294	15.5	
1	4231	16	
1.5	4375	16.5	
2	4434	17	
2.5	4751	17.5	
3	6865	18	
3.5	8860	18.5	
4	8311	19	
4.5	7465	19.5	
5	6505	20	
5.5	5576	20.5	
6	5511	21	
6.5	4908	21.5	
7	4668	22	
7.5	5004	22.5	
8	6083	23	
8.5	5709	23.5	
9	5821	24	
9.5	6135	24.5	
10	5227	25	
10.5	5657	25.5	
11	6300	26	
11.5	6963	26.5	
12	7209	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 15, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-107
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4479	15.5	
1	4911	16	
1.5	4801	16.5	
2	4867	17	
2.5	5302	17.5	
3	5202	18	
3.5	5419	18.5	
4	6337	19	
4.5	7495	19.5	
5	7243	20	
5.5	6138	20.5	
6	6811	21	
6.5	7540	21.5	
7	7277	22	
7.5	7080	22.5	
8	6567	23	
8.5	6308	23.5	
9	6341	24	
9.5	5906	24.5	
10	5330	25	
10.5	4886	25.5	
11	4888	26	
11.5	5604	26.5	
12	6005	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

**Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH**

Date: January 15, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,323

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-108
Maximum Depth 13 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4655	15.5	
1	5296	16	
1.5	5679	16.5	
2	5507	17	
2.5	5714	17.5	
3	6002	18	
3.5	7880	18.5	
4	8729	19	
4.5	9932	19.5	
5	10,561	20	
5.5	10,697	20.5	
6	10,661	21	
6.5	10,362	21.5	
7	9974	22	
7.5	8812	22.5	
8	7450	23	
8.5	6882	23.5	
9	7162	24	
9.5	6904	24.5	
10	6414	25	
10.5	6336	25.5	
11	6604	26	
11.5	7233	26.5	
12	7459	27	
12.5	8249	27.5	
13	8647	28	
13.5	8447	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,323

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-109
Maximum Depth 12 feet 9 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4436	15.5	
1	5727	16	
1.5	6310	16.5	
2	9998	17	
2.5	10,655	17.5	
3	10,151	18	
3.5	11,227	18.5	
4	11,351	19	
4.5	11,127	19.5	
5	10,579	20	
5.5	9743	20.5	
6	8412	21	
6.5	6491	21.5	
7	5896	22	
7.5	5822	22.5	
8	5906	23	
8.5	6013	23.5	
9	6050	24	
9.5	6499	24.5	
10	7380	25	
10.5	7561	25.5	
11	8782	26	
11.5	9213	26.5	
12	9676	27	
12.5	8682	27.5	
12.9	7675	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Toby Shewan

Instrument Model No.: Ludum 2221

Operational Check: 20,323

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-110
 Maximum Depth 13 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4393	15.5	
1	4613	16	
1.5	4543	16.5	
2	4878	17	
2.5	5051	17.5	
3	5720	18	
3.5	8539	18.5	
4	10,1065	19	
4.5	10,820	19.5	
5	9940	20	
5.5	8830	20.5	
6	6910	21	
6.5	7340	21.5	
7	6920	22	
7.5	6032	22.5	
8	5528	23	
8.5	6539	23.5	
9	7071	24	
9.5	6732	24.5	
10	5029	25	
10.5	3513	25.5	
11	2620	26	
11.5	2829	26.5	
12	4113	27	
12.5	4356	27.5	
13	4764	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

**Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH**

Date: January 15, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,323

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-111
Maximum Depth 11 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5084	15.5	
1	6166	16	
1.5	6312	16.5	
2	6528	17	
2.5	6371	17.5	
3	5067	18	
3.5	4117	18.5	
4	4290	19	
4.5	4544	19.5	
5	4929	20	
5.5	5379	20.5	
6	6174	21	
6.5	6476	21.5	
7	6867	22	
7.5	6915	22.5	
8	6309	23	
8.5	5308	23.5	
9	5065	24	
9.5	5923	24.5	
10	6110	25	
10.5	6240	25.5	
11	6051	26	
11.5	5608	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,323

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =
18,059 counts per 30 sec.

* Shielded (2")

Boring No.: D-112
Maximum Depth 11 feet 3 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4325	15.5	
1	5174	16	
1.5	5744	16.5	
2	5102	17	
2.5	4280	17.5	
3	3700	18	
3.5	3859	18.5	
4	5087	19	
4.5	4904	19.5	
5	5897	20	
5.5	8367	20.5	
6	9440	21	
6.5	8896	21.5	
7	7681	22	
7.5	6850	22.5	
8	6455	23	
8.5	6476	23.5	
9	6624	24	
9.5	6749	24.5	
10	6538	25	
10.5	6257	25.5	
11	5874	26	
11.3	5302	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 15, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,323

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-113
Maximum Depth 10 feet 8 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4022	15.5	
1	4926	16	
1.5	5229	16.5	
2	5294	17	
2.5	5464	17.5	
3	5649	18	
3.5	5705	18.5	
4	6423	19	
4.5	8038	19.5	
5	10,021	20	
5.5	10,330	20.5	
6	9628	21	
6.5	8645	21.5	
7	8368	22	
7.5	7541	22.5	
8	6529	23	
8.5	6507	23.5	
9	6762	24	
9.5	7401	24.5	
10	6385	25	
10.5	5563	25.5	
10.8	5203	26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 16, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,214

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-114
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4596	15.5	
1	5484	16	
1.5	5271	16.5	
2	5177	17	
2.5	5144	17.5	
3	5072	18	
3.5	5307	18.5	
4	5441	19	
4.5	4939	19.5	
5	5385	20	
5.5	6592	20.5	
6	7084	21	
6.5	7715	21.5	
7	7044	22	
7.5	6231	22.5	
8	4961	23	
8.5	5345	23.5	
9	6613	24	
9.5	6838	24.5	
10	7032	25	
10.5	7054	25.5	
11	6507	26	
11.5	5225	26.5	
12	5964	27	
12.5	5660	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 16, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,214

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-115
Maximum Depth 12 feet 11 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3131	15.5	
1	4481	16	
1.5	5487	16.5	
2	6404	17	
2.5	6147	17.5	
3	4653	18	
3.5	3858	18.5	
4	5596	19	
4.5	5391	19.5	
5	4899	20	
5.5	6164	20.5	
6	7686	21	
6.5	7702	21.5	
7	6988	22	
7.5	6593	22.5	
8	6184	23	
8.5	6214	23.5	
9	6798	24	
9.5	6661	24.5	
10	6844	25	
10.5	6468	25.5	
11	5092	26	
11.5	4301	26.5	
12	4793	27	
12.5	6567	27.5	
12.11	7120	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log
Project No. 32193ZH

Date: January 16, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,214

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-116
Maximum Depth 7 feet 9 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4660	15.5	
1	5199	16	
1.5	5176	16.5	
2	5507	17	
2.5	5304	17.5	
3	4447	18	
3.5	3430	18.5	
4	4353	19	
4.5	5232	19.5	
5	5836	20	
5.5	7579	20.5	
6	8851	21	
6.5	9032	21.5	
7	9114	22	
7.5	8794	22.5	
7.9	8466	23	
8.5		23.5	
9		24	
9.5		24.5	
10		25	
10.5		25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 16, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,214

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-117
Maximum Depth 11 feet 11 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4562	15.5	
1	5603	16	
1.5	5043	16.5	
2	4127	17	
2.5	4040	17.5	
3	4521	18	
3.5	6023	18.5	
4	5919	19	
4.5	6838	19.5	
5	6589	20	
5.5	5731	20.5	
6	5365	21	
6.5	5260	21.5	
7	5465	22	
7.5	5192	22.5	
8	4982	23	
8.5	4857	23.5	
9	4704	24	
9.5	4891	24.5	
10	6196	25	
10.5	6123	25.5	
11	5455	26	
11.5	4384	26.5	
11.11	3637	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 16, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,214

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-118
Maximum Depth 10 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3127	15.5	
1	4336	16	
1.5	4361	16.5	
2	4091	17	
2.5	4208	17.5	
3	4756	18	
3.5	4792	18.5	
4	4486	19	
4.5	5657	19.5	
5	6094	20	
5.5	5935	20.5	
6	6081	21	
6.5	5162	21.5	
7	5045	22	
7.5	4640	22.5	
8	4874	23	
8.5	5312	23.5	
9	5577	24	
9.5	5682	24.5	
10	5650	25	
10.5	5855	25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 16, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,214

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-119
Maximum Depth 14 feet 4 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3826	15.5	
1	4388	16	
1.5	4397	16.5	
2	3745	17	
2.5	4718	17.5	
3	5274	18	
3.5	6324	18.5	
4	7331	19	
4.5	7972	19.5	
5	8743	20	
5.5	8311	20.5	
6	8169	21	
6.5	7519	21.5	
7	7517	22	
7.5	6932	22.5	
8	6800	23	
8.5	5716	23.5	
9	4789	24	
9.5	4205	24.5	
10	4307	25	
10.5	4913	25.5	
11	6871	26	
11.5	6868	26.5	
12	5725	27	
12.5	5374	27.5	
13	5950	28	
13.5	6865	28.5	
14	8269	29	
14.4	8328	29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 16, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,214

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-120
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4259	15.5	
1	4386	16	
1.5	4330	16.5	
2	4299	17	
2.5	4577	17.5	
3	5404	18	
3.5	5992	18.5	
4	5614	19	
4.5	5083	19.5	
5	5120	20	
5.5	4656	20.5	
6	5039	21	
6.5	5059	21.5	
7	4752	22	
7.5	4309	22.5	
8	4146	23	
8.5	3919	23.5	
9	4425	24	
9.5	4991	24.5	
10	5206	25	
10.5	5733	25.5	
11	6153	26	
11.5	6331	26.5	
12	4921	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 16, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,214

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-121
Maximum Depth 12 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4518	15.5	
1	6030	16	
1.5	6220	16.5	
2	5070	17	
2.5	4563	17.5	
3	4371	18	
3.5	4740	18.5	
4	5970	19	
4.5	8503	19.5	
5	9553	20	
5.5	9381	20.5	
6	8446	21	
6.5	7089	21.5	
7	6299	22	
7.5	6003	22.5	
8	6120	23	
8.5	5997	23.5	
9	5711	24	
9.5	4626	24.5	
10	4551	25	
10.5	5264	25.5	
11	5321	26	
11.5	3793	26.5	
12	3091	27	
12.5	3379	27.5	
12.10	4473	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 16, 2002

Technician: J. Ferrans

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-122
Maximum Depth 13 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3638	15.5	
1	4079	16	
1.5	4142	16.5	
2	4827	17	
2.5	5174	17.5	
3	4365	18	
3.5	3674	18.5	
4	3397	19	
4.5	3433	19.5	
5	4704	20	
5.5	5341	20.5	
6	6837	21	
6.5	6764	21.5	
7	5602	22	
7.5	4512	22.5	
8	4014	23	
8.5	4113	23.5	
9	4708	24	
9.5	5459	24.5	
10	6159	25	
10.5	6124	25.5	
11	7284	26	
11.5	6161	26.5	
12	4466	27	
12.5	4235	27.5	
13	4247	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 16, 2002

Technician: J. Ferrans

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-123
Maximum Depth 13 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3223	15.5	
1	3568	16	
1.5	3958	16.5	
2	4574	17	
2.5	5050	17.5	
3	4615	18	
3.5	4082	18.5	
4	3791	19	
4.5	3345	19.5	
5	4178	20	
5.5	5082	20.5	
6	5243	21	
6.5	5361	21.5	
7	5559	22	
7.5	5733	22.5	
8	5385	23	
8.5	4830	23.5	
9	5034	24	
9.5	4666	24.5	
10	4320	25	
10.5	4436	25.5	
11	5385	26	
11.5	4937	26.5	
12	4020	27	
12.5	3845	27.5	
13	3561	28	
13.5	3982	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 16, 2002

Technician: J. Ferrans

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =
15,894 counts per 30 sec.

* Shielded (1")

Boring No.: D-124
Maximum Depth 11 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3765	15.5	
1	4646	16	
1.5	3612	16.5	
2	2381	17	
2.5	2220	17.5	
3	2807	18	
3.5	3440	18.5	
4	3894	19	
4.5	3884	19.5	
5	3307	20	
5.5	2638	20.5	
6	2272	21	
6.5	2240	21.5	
7	2364	22	
7.5	2849	22.5	
8	357	23	
8.5	3106	23.5	
9	2526	24	
9.5	2239	24.5	
10	2214	25	
10.5	2443	25.5	
11	2599	26	
11.5	2338	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log
Project No. 32193ZH

Date: January 16, 2002

Technician: J. Ferrans

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-125
Maximum Depth 11 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2521	15.5	
1	2991	16	
1.5	5592	16.5	
2	6671	17	
2.5	6426	17.5	
3	6103	18	
3.5	4371	18.5	
4	3521	19	
4.5	3192	19.5	
5	2962	20	
5.5	2856	20.5	
6	2948	21	
6.5	2907	21.5	
7	2507	22	
7.5	2441	22.5	
8	2654	23	
8.5	4460	23.5	
9	6708	24	
9.5	9430	24.5	
10	11,463	25	
10.5	15,000	25.5	
11	20,519	26	
11.5	38,187	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 16, 2002

Technician: J. Ferrans

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-126
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3838	15.5	
1	4741	16	
1.5	6753	16.5	
2	7825	17	
2.5	7406	17.5	
3	6562	18	
3.5	5869	18.5	
4	5646	19	
4.5	5579	19.5	
5	4822	20	
5.5	4908	20.5	
6	5130	21	
6.5	5613	21.5	
7	5313	22	
7.5	5271	22.5	
8	3789	23	
8.5	2384	23.5	
9	1928	24	
9.5	2437	24.5	
10	3414	25	
10.5	3612	25.5	
11	4132	26	
11.5	4142	26.5	
12	3463	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log
Project No. 32193ZH

Date: January 16, 2002

Technician: J. Ferrans

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-127
Maximum Depth 13 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3904	15.5	
1	5372	16	
1.5	6090	16.5	
2	6443	17	
2.5	7658	17.5	
3	8344	18	
3.5	8914	18.5	
4	8631	19	
4.5	8702	19.5	
5	8771	20	
5.5	7757	20.5	
6	6077	21	
6.5	6136	21.5	
7	6462	22	
7.5	5753	22.5	
8	5611	23	
8.5	5141	23.5	
9	4481	24	
9.5	4580	24.5	
10	4745	25	
10.5	4707	25.5	
11	4016	26	
11.5	2979	26.5	
12	3264	27	
12.5	4085	27.5	
13	4403	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 16, 2002

Technician: J. Ferrans

Instrument Model No.: Ludum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =
15,894 counts per 30 sec.

* Shielded (1")

Boring No.: D-128
Maximum Depth 13 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3702	15.5	
1	5412	16	
1.5	5683	16.5	
2	6710	17	
2.5	5405	17.5	
3	3953	18	
3.5	5502	18.5	
4	7383	19	
4.5	6940	19.5	
5	8023	20	
5.5	8500	20.5	
6	7932	21	
6.5	6470	21.5	
7	6085	22	
7.5	5883	22.5	
8	5168	23	
8.5	4165	23.5	
9	4022	24	
9.5	5545	24.5	
10	6984	25	
10.5	7267	25.5	
11	7288	26	
11.5	7257	26.5	
12	6955	27	
12.5	7012	27.5	
13	6807	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 16, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,214

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-129
Maximum Depth 11 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5187	15.5	
1	5461	16	
1.5	5182	16.5	
2	4726	17	
2.5	4376	17.5	
3	4005	18	
3.5	4468	18.5	
4	5284	19	
4.5	4842	19.5	
5	3876	20	
5.5	2802	20.5	
6	4153	21	
6.5	4879	21.5	
7	4370	22	
7.5	4973	22.5	
8	5411	23	
8.5	4998	23.5	
9	4912	24	
9.5	4571	24.5	
10	3584	25	
10.5	2811	25.5	
11	2918	26	
11.5	3225	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 16, 2002

Technician: J. Ferrans

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =
15,894 counts per 30 sec.

* Shielded (1")

Boring No.: D-130
Maximum Depth 9 feet 5 inches (Collapsed Hole)

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4986	15.5	
1	5403	16	
1.5	5039	16.5	
2	4978	17	
2.5	4472	17.5	
3	4333	18	
3.5	4073	18.5	
4	3372	19	
4.5	2766	19.5	
5	2423	20	
5.5	2531	20.5	
6	3252	21	
6.5	4038	21.5	
7	3826	22	
7.5	4070	22.5	
8	4402	23	
8.5	4620	23.5	
9	4329	24	
9.5	4156	24.5	
10		25	
10.5		25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log
Project No. 32193ZH

Date: January 16, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,214

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =
18,059 counts per 30 sec.

* Shielded (2")

Boring No.: D-131
Maximum Depth 11 feet 4 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4931	15.5	
1	5784	16	
1.5	5751	16.5	
2	5142	17	
2.5	4822	17.5	
3	5068	18	
3.5	5209	18.5	
4	4892	19	
4.5	4276	19.5	
5	3764	20	
5.5	3751	20.5	
6	3832	21	
6.5	4185	21.5	
7	4190	22	
7.5	4216	22.5	
8	3967	23	
8.5	4517	23.5	
9	3243	24	
9.5	2855	24.5	
10	3045	25	
10.5	3561	25.5	
11	3615	26	
11.4	3351	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 16, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,214

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =
18,059 counts per 30 sec.

* Shielded (2")

Boring No.: D-132
Maximum Depth 11 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	6032	15.5	
1	6363	16	
1.5	5933	16.5	
2	5655	17	
2.5	6189	17.5	
3	6561	18	
3.5	6634	18.5	
4	6623	19	
4.5	6012	19.5	
5	5270	20	
5.5	4671	20.5	
6	4385	21	
6.5	4051	21.5	
7	3753	22	
7.5	3036	22.5	
8	2383	23	
8.5	2464	23.5	
9	2707	24	
9.5	2715	24.5	
10	2913	25	
10.5	3076	25.5	
11	3570	26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 16, 2002

Technician: J. Ferrans

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-133
Maximum Depth 13 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4915	15.5	
1	6996	16	
1.5	9406	16.5	
2	9704	17	
2.5	10,1011	17.5	
3	10,267	18	
3.5	9336	18.5	
4	7909	19	
4.5	6210	19.5	
5	5342	20	
5.5	5333	20.5	
6	4684	21	
6.5	6191	21.5	
7	7303	22	
7.5	7172	22.5	
8	7462	23	
8.5	6801	23.5	
9	7302	24	
9.5	7283	24.5	
10	6321	25	
10.5	6219	25.5	
11	6008	26	
11.5	5834	26.5	
12	5937	27	
12.5	6103	27.5	
13	6538	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 16, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,214

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2°)

18,059 counts per 30 sec.

Boring No.: D-134
Maximum Depth 13 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3725	15.5	
1	4577	16	
1.5	6166	16.5	
2	8214	17	
2.5	9098	17.5	
3	9421	18	
3.5	10,023	18.5	
4	9515	19	
4.5	6995	19.5	
5	7519	20	
5.5	5860	20.5	
6	5704	21	
6.5	7817	21.5	
7	8524	22	
7.5	7486	22.5	
8	8785	23	
8.5	9061	23.5	
9	7806	24	
9.5	7132	24.5	
10	6698	25	
10.5	4806	25.5	
11	3480	26	
11.5	3144	26.5	
12	3913	27	
12.5	5196	27.5	
13	5377	28	
13.5	5050	28.5	
13.10	5065	29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 16, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,214

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: D-135
Maximum Depth 13 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4694	15.5	
1	5074	16	
1.5	5046	16.5	
2	5101	17	
2.5	6032	17.5	
3	6432	18	
3.5	4469	18.5	
4	3981	19	
4.5	3323	19.5	
5	3099	20	
5.5	3685	20.5	
6	3823	21	
6.5	3884	21.5	
7	3359	22	
7.5	3691	22.5	
8	4557	23	
8.5	4405	23.5	
9	4416	24	
9.5	4711	24.5	
10	4797	25	
10.5	4151	25.5	
11	4270	26	
11.5	4351	26.5	
12	4420	27	
12.5	4400	27.5	
13	3969	28	
13.5	4019	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 16, 2002

Technician: J. Ferrans

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

• Shielded (1")

15,894 counts per 30 sec.

Boring No.: D-136
Maximum Depth 11 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3456	15.5	
1	3296	16	
1.5	3801	16.5	
2	4360	17	
2.5	4414	17.5	
3	4355	18	
3.5	4541	18.5	
4	5743	19	
4.5	6435	19.5	
5	5856	20	
5.5	6919	20.5	
6	7676	21	
6.5	7926	21.5	
7	7345	22	
7.5	6451	22.5	
8	5742	23	
8.5	6267	23.5	
9	7373	24	
9.5	7644	24.5	
10	7239	25	
10.5	6948	25.5	
11	7048	26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 3, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 18972

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-1
Maximum Depth 11 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4742	15.5	
1	5975	16	
1.5	6341	16.5	
2	5507	17	
2.5	3489	17.5	
3	2504	18	
3.5	3619	18.5	
4	5025	19	
4.5	5590	19.5	
5	7491	20	
5.5	8240	20.5	
6	8032	21	
6.5	7747	21.5	
7	7678	22	
7.5	6471	22.5	
8	5312	23	
8.5	4955	23.5	
9	5271	24	
9.5	5543	24.5	
10	5625	25	
10.5	5921	25.5	
11	5572	26	
11.5	5996	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 3, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 18972

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =
18,059 counts per 30 sec.

* Shielded (2")

Boring No.: E-4

Maximum Depth 11 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5730	15.5	
1	6554	16	
1.5	6156	16.5	
2	5786	17	
2.5	5466	17.5	
3	5687	18	
3.5	5829	18.5	
4	5914	19	
4.5	5810	19.5	
5	5038	20	
5.5	4525	20.5	
6	4225	21	
6.5	3895	21.5	
7	3252	22	
7.5	2737	22.5	
8	2539	23	
8.5	2588	23.5	
9	3073	24	
9.5	3883	24.5	
10	4720	25	
10.5	3884	25.5	
11	7112	26	
11.5	6260	26.5	
11.10	6612	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 3, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 18972

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-5 – S KIPPED ELCTRICAL LINE PASSES

Maximum Depth

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5		15.5	
1		16	
1.5		16.5	
2		17	
2.5		17.5	
3		18	
3.5		18.5	
4		19	
4.5		19.5	
5		20	
5.5		20.5	
6		21	
6.5		21.5	
7		22	
7.5		22.5	
8		23	
8.5		23.5	
9		24	
9.5		24.5	
10		25	
10.5		25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

**Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH**

Date: January 3, 2002

Instrument Model No.: Ludlum 2221

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

• Shielded (2")

Technician: Toby Shewan

Operational Check: 18972

Cutoff Value = 7.2 pCi/gm =
18,059 counts per 30 sec.

Boring No.: E-6
Maximum Depth 11 feet 9 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3318	15.5	
1	3271	16	
1.5	3289	16.5	
2	3803	17	
2.5	3781	17.5	
3	4019	18	
3.5	3993	18.5	
4	4847	19	
4.5	5573	19.5	
5	6250	20	
5.5	5543	20.5	
6	5757	21	
6.5	6065	21.5	
7	6075	22	
7.5	5618	22.5	
8	5202	23	
8.5	5102	23.5	
9	4320	24	
9.5	3589	24.5	
10	2420	25	
10.5	1965	25.5	
11	1857	26	
11.5	1917	26.5	
11.9	1988	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 4, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,122

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-7

Maximum Depth 12 feet 2 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4336	15.5	
1	4853	16	
1.5	5074	16.5	
2	4669	17	
2.5	5075	17.5	
3	6851	18	
3.5	8114	18.5	
4	8379	19	
4.5	8621	19.5	
5	10,852	20	
5.5	8680	20.5	
6	7005	21	
6.5	5691	21.5	
7	4049	22	
7.5	4308	22.5	
8	5328	23	
8.5	6481	23.5	
9	7265	24	
9.5	6678	24.5	
10	6474	25	
10.5	6010	25.5	
11	5847	26	
11.5	6110	26.5	
12	6230	27	
12.2	6434	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 4, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,122

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-8
Maximum Depth 12 feet 9 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4588	15.5	
1	4828	16	
1.5	4576	16.5	
2	5257	17	
2.5	5662	17.5	
3	6434	18	
3.5	7895	18.5	
4	7971	19	
4.5	7862	19.5	
5	6906	20	
5.5	6282	20.5	
6	6439	21	
6.5	6162	21.5	
7	6433	22	
7.5	6919	22.5	
8	7479	23	
8.5	6714	23.5	
9	6017	24	
9.5	5581	24.5	
10	5195	25	
10.5	5053	25.5	
11	5537	26	
11.5	6611	26.5	
12	7502	27	
12.5	7749	27.5	
12.9	7744	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

**Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH**

Date: January 4, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,122

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-9
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5754	15.5	
1	6055	16	
1.5	6559	16.5	
2	7634	17	
2.5	10,029	17.5	
3	9619	18	
3.5	7975	18.5	
4	7098	19	
4.5	7825	19.5	
5	8122	20	
5.5	8546	20.5	
6	9019	21	
6.5	8841	21.5	
7	7072	22	
7.5	6579	22.5	
8	6753	23	
8.5	6882	23.5	
9	6800	24	
9.5	7170	24.5	
10	7487	25	
10.5	7224	25.5	
11	7329	26	
11.5	7135	26.5	
12	7056	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 4, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,122

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-10

Maximum Depth 12

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4021	15.5	
1	2672	16	
1.5	2711	16.5	
2	4138	17	
2.5	4206	17.5	
3	3365	18	
3.5	4243	18.5	
4	5081	19	
4.5	5048	19.5	
5	6049	20	
5.5	7824	20.5	
6	8077	21	
6.5	7124	21.5	
7	7131	22	
7.5	6427	22.5	
8	6628	23	
8.5	6005	23.5	
9	6062	24	
9.5	5881	24.5	
10	5877	25	
10.5	5658	25.5	
11	5961	26	
11.5	6518	26.5	
12	6742	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 4, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,122

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-11
Maximum Depth 11 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3773	15.5	
1	4126	16	
1.5	4261	16.5	
2	50,409	17	
2.5	3290	17.5	
3	2514	18	
3.5	3593	18.5	
4	4874	19	
4.5	4272	19.5	
5	5749	20	
5.5	8887	20.5	
6	9628	21	
6.5	9542	21.5	
7	8621	22	
7.5	7115	22.5	
8	6517	23	
8.5	5773	23.5	
9	5458	24	
9.5	5354	24.5	
10	6236	25	
10.5	5585	25.5	
11	5031	26	
11.5	5135	26.5	
11.10	5176	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 8, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,043

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-12
 Maximum Depth 11 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4376	15.5	
1	5115	16	
1.5	6518	16.5	
2	6843	17	
2.5	2808	17.5	
3	3991	18	
3.5	4206	18.5	
4	3803	19	
4.5	5562	19.5	
5	7381	20	
5.5	7827	20.5	
6	7374	21	
6.5	6600	21.5	
7	6501	22	
7.5	6303	22.5	
8	6379	23	
8.5	5189	23.5	
9	4559	24	
9.5	5014	24.5	
10	5282	25	
10.5	4624	25.5	
11	4066	26	
11.10	4159	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 8, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,043

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-13
Maximum Depth 12 feet 4 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4268	15.5	
1	5315	16	
1.5	4304	16.5	
2	5412	17	
2.5	5765	17.5	
3	6095	18	
3.5	6709	18.5	
4	6093	19	
4.5	5392	19.5	
5	4850	20	
5.5	4738	20.5	
6	4665	21	
6.5	4928	21.5	
7	4656	22	
7.5	4708	22.5	
8	4686	23	
8.5	5964	23.5	
9	6425	24	
9.5	5633	24.5	
10	5050	25	
10.5	4978	25.5	
11	5471	26	
11.5	5933	26.5	
12	6530	27	
12.4	6579	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 4, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,122

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

• Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-14
Maximum Depth 11 feet 1 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3640	15.5	
1	5185	16	
1.5	5470	16.5	
2	4818	17	
2.5	6421	17.5	
3	8071	18	
3.5	7009	18.5	
4	5956	19	
4.5	5412	19.5	
5	5531	20	
5.5	5777	20.5	
6	5866	21	
6.5	6050	21.5	
7	6016	22	
7.5	5781	22.5	
8	5779	23	
8.5	5917	23.5	
9	5894	24	
9.5	5578	24.5	
10	6149	25	
10.5	6407	25.5	
11	5783	26	
11.1	5659	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 4, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,122

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-15
Maximum Depth 12 feet 8 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3020	15.5	
1	2890	16	
1.5	3015	16.5	
2	4234	17	
2.5	4915	17.5	
3	5143	18	
3.5	4981	18.5	
4	5134	19	
4.5	5635	19.5	
5	5774	20	
5.5	5697	20.5	
6	5533	21	
6.5	5647	21.5	
7	5685	22	
7.5	5266	22.5	
8	5492	23	
8.5	5985	23.5	
9	6019	24	
9.5	5510	24.5	
10	5440	25	
10.5	5563	25.5	
11	5937	26	
11.5	6115	26.5	
12	6305	27	
12.5	6186	27.5	
13	6156	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

**Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH**

Date: January 4, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,122

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

• Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-16
Maximum Depth 13 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3943	15.5	
1	4276	16	
1.5	4067	16.5	
2	4386	17	
2.5	5013	17.5	
3	5364	18	
3.5	4891	18.5	
4	4861	19	
4.5	4868	19.5	
5	5235	20	
5.5	6176	20.5	
6	6822	21	
6.5	6618	21.5	
7	6005	22	
7.5	5759	22.5	
8	5590	23	
8.5	5973	23.5	
9	6040	24	
9.5	6615	24.5	
10	6623	25	
10.5	6440	25.5	
11	5587	26	
11.5	5653	26.5	
12	5591	27	
12.5	6301	27.5	
13	6203	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 4, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,122

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-17
Maximum Depth 12 feet 1 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4225	15.5	
1	5486	16	
1.5	6513	16.5	
2	6858	17	
2.5	7242	17.5	
3	6993	18	
3.5	6664	18.5	
4	6668	19	
4.5	6486	19.5	
5	6538	20	
5.5	7608	20.5	
6	9250	21	
6.5	9798	21.5	
7	9993	22	
7.5	8721	22.5	
8	7197	23	
8.5	6132	23.5	
9	5460	24	
9.5	5509	24.5	
10	5573	25	
10.5	5270	25.5	
11	5332	26	
11.5	5581	26.5	
12	5753	27	
12.1	5599	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

**Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH**

Date: January 4, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,122

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-18
Maximum Depth 11 feet 8 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3913	15.5	
1	4516	16	
1.5	4826	16.5	
2	4809	17	
2.5	5065	17.5	
3	5061	18	
3.5	4850	18.5	
4	4805	19	
4.5	4951	19.5	
5	4600	20	
5.5	4316	20.5	
6	3825	21	
6.5	3948	21.5	
7	3999	22	
7.5	4078	22.5	
8	4661	23	
8.5	5235	23.5	
9	5455	24	
9.5	5685	24.5	
10	6501	25	
10.5	7273	25.5	
11	6615	26	
11.5	6148	26.5	
11.8	5715	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 4, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,122

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-19
Maximum Depth 12 feet 1 inch

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4291	15.5	
1	5435	16	
1.5	5711	16.5	
2	5997	17	
2.5	6038	17.5	
3	5853	18	
3.5	5919	18.5	
4	5690	19	
4.5	5250	19.5	
5	4253	20	
5.5	3664	20.5	
6	3454	21	
6.5	3819	21.5	
7	4361	22	
7.5	4951	22.5	
8	5246	23	
8.5	4893	23.5	
9	5082	24	
9.5	5463	24.5	
10	6442	25	
10.5	6979	25.5	
11	6962	26	
11.5	6492	26.5	
12	6136	27	
12.1	5918	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 4, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,122

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-20
 Maximum Depth 13 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2963	15.5	
1	4063	16	
1.5	4816	16.5	
2	4661	17	
2.5	5591	17.5	
3	5981	18	
3.5	5843	18.5	
4	5948	19	
4.5	5415	19.5	
5	5357	20	
5.5	4055	20.5	
6	4621	21	
6.5	4552	21.5	
7	4364	22	
7.5	4053	22.5	
8	4076	23	
8.5	4298	23.5	
9	4340	24	
9.5	4590	24.5	
10	4650	25	
10.5	4533	25.5	
11	4762	26	
11.5	5629	26.5	
12	6277	27	
12.5	6432	27.5	
13	6766	28	
13.5	6862	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 4, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,122

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-21
Maximum Depth 12 feet 4 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4378	15.5	
1	5649	16	
1.5	6395	16.5	
2	5985	17	
2.5	5963	17.5	
3	6012	18	
3.5	5839	18.5	
4	5554	19	
4.5	5897	19.5	
5	6247	20	
5.5	5372	20.5	
6	5318	21	
6.5	5305	21.5	
7	5200	22	
7.5	3971	22.5	
8	2909	23	
8.5	2812	23.5	
9	2977	24	
9.5	3250	24.5	
10	3900	25	
10.5	4486	25.5	
11	5495	26	
11.5	6096	26.5	
12	6662	27	
12.4	7092	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 4, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,122

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-22
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	9621	15.5	
1	22,983	16	
1.5	28,885	16.5	
2	14,789	17	
2.5	8548	17.5	
3	8544	18	
3.5	7862	18.5	
4	7258	19	
4.5	7126	19.5	
5	7022	20	
5.5	8210	20.5	
6	7329	21	
6.5	6625	21.5	
7	5959	22	
7.5	6059	22.5	
8	5414	23	
8.5	4659	23.5	
9	4106	24	
9.5	5582	24.5	
10	5742	25	
10.5	5829	25.5	
11	5416	26	
11.5	5124	26.5	
12	5341	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 4, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,122

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-23
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	8073	15.5	
1	6217	16	
1.5	4648	16.5	
2	6042	17	
2.5	7459	17.5	
3	9120	18	
3.5	7812	18.5	
4	7658	19	
4.5	7778	19.5	
5	9057	20	
5.5	8388	20.5	
6	8212	21	
6.5	7914	21.5	
7	6883	22	
7.5	6215	22.5	
8	6407	23	
8.5	6417	23.5	
9	6035	24	
9.5	4905	24.5	
10	4771	25	
10.5	5653	25.5	
11	6101	26	
11.5	6614	26.5	
12	6229	27	
12.5	5973	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 4, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,122

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-24
Maximum Depth 10 feet 2 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5929	15.5	
1	7057	16	
1.5	7213	16.5	
2	7558	17	
2.5	8706	17.5	
3	8074	18	
3.5	7218	18.5	
4	7736	19	
4.5	7819	19.5	
5	6498	20	
5.5	6537	20.5	
6	7277	21	
6.5	6099	21.5	
7	4687	22	
7.5	4331	22.5	
8	4839	23	
8.5	5422	23.5	
9	5335	24	
9.5	5558	24.5	
10	5743	25	
10.2	5633	25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 4, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,122

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-25
Maximum Depth 11 feet 8 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	9386	15.5	
1	15,410	16	
1.5	24,502	16.5	
2	49,522	17	
2.5	43,678	17.5	
3	15,849	18	
3.5	6973	18.5	
4	6346	19	
4.5	6257	19.5	
5	6454	20	
5.5	6658	20.5	
6	6165	21	
6.5	6099	21.5	
7	6105	22	
7.5	6402	22.5	
8	6482	23	
8.5	6904	23.5	
9	7201	24	
9.5	7336	24.5	
10	6836	25	
10.5	7056	25.5	
11	7613	26	
11.8	7954	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 7, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,372

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-26

Maximum Depth 11 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4246	15.5	
1	5456	16	
1.5	6012	16.5	
2	6098	17	
2.5	5912	17.5	
3	6409	18	
3.5	6622	18.5	
4	5768	19	
4.5	5219	19.5	
5	6259	20	
5.5	6040	20.5	
6	5231	21	
6.5	6034	21.5	
7	6443	22	
7.5	6799	22.5	
8	6321	23	
8.5	6335	23.5	
9	6639	24	
9.5	6394	24.5	
10	6254	25	
10.5	6046	25.5	
11	6155	26	
11.5	5994	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 7, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,372

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-27

Maximum Depth 11 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5297	15.5	
1	6120	16	
1.5	5857	16.5	
2	5890	17	
2.5	7445	17.5	
3	6648	18	
3.5	6947	18.5	
4	6745	19	
4.5	6841	19.5	
5	6680	20	
5.5	6032	20.5	
6	6673	21	
6.5	7137	21.5	
7	6838	22	
7.5	6045	22.5	
8	5965	23	
8.5	6359	23.5	
9	7074	24	
9.5	6961	24.5	
10	5737	25	
10.5	5290	25.5	
11	5448	26	
11.5	5499	26.5	
11.10	5383	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

**Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH**

Date: January 7, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,372

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =
18,059 counts per 30 sec.

* Shielded (2")

Boring No.: E-28

Maximum Depth 11 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5049	15.5	
1	5446	16	
1.5	5702	16.5	
2	6147	17	
2.5	6728	17.5	
3	6940	18	
3.5	6931	18.5	
4	6591	19	
4.5	5840	19.5	
5	5108	20	
5.5	5039	20.5	
6	6638	21	
6.5	7758	21.5	
7	7501	22	
7.5	6095	22.5	
8	5257	23	
8.5	4464	23.5	
9	4467	24	
9.5	4508	24.5	
10	5403	25	
10.5	6155	25.5	
11	6105	26	
11.5	5933	26.5	
11.10	5453	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

**Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH**

Date: January 7, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,372

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-29
Maximum Depth 12 feet 3 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5172	15.5	
1	5546	16	
1.5	4548	16.5	
2	4978	17	
2.5	6499	17.5	
3	6730	18	
3.5	5972	18.5	
4	5368	19	
4.5	6117	19.5	
5	7536	20	
5.5	8282	20.5	
6	7431	21	
6.5	6334	21.5	
7	6400	22	
7.5	6069	22.5	
8	7021	23	
8.5	7589	23.5	
9	7495	24	
9.5	7379	24.5	
10	7466	25	
10.5	7448	25.5	
11	7476	26	
11.5	7726	26.5	
12	8267	27	
12.3	8358	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 7, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,372

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-30
Maximum Depth 13 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	7402	15.5	
1	8715	16	
1.5	9926	16.5	
2	9720	17	
2.5	9267	17.5	
3	8384	18	
3.5	7927	18.5	
4	6163	19	
4.5	4962	19.5	
5	4577	20	
5.5	5772	20.5	
6	6820	21	
6.5	8290	21.5	
7	8638	22	
7.5	8640	22.5	
8	8028	23	
8.5	7289	23.5	
9	7384	24	
9.5	8308	24.5	
10	8214	25	
10.5	8463	25.5	
11	7814	26	
11.5	7035	26.5	
12	6778	27	
12.5	6384	27.5	
13	5816	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 7, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,372

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-31
Maximum Depth 10 feet 1 inch

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	7888	15.5	
1	10,077	16	
1.5	10,483	16.5	
2	10,530	17	
2.5	10,075	17.5	
3	9390	18	
3.5	7832	18.5	
4	6874	19	
4.5	6275	19.5	
5	6121	20	
5.5	5858	20.5	
6	5767	21	
6.5	5538	21.5	
7	6217	22	
7.5	6393	22.5	
8	6450	23	
8.5	6309	23.5	
9	6235	24	
9.5	6091	24.5	
10	5956	25	
10.1	5898	25.5	
11		26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

**Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH**

Date: January 7, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,372

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-32

Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5509	15.5	
1	5214	16	
1.5	6183	16.5	
2	7310	17	
2.5	7596	17.5	
3	7577	18	
3.5	7324	18.5	
4	7008	19	
4.5	6063	19.5	
5	4971	20	
5.5	4886	20.5	
6	4813	21	
6.5	5487	21.5	
7	5676	22	
7.5	6744	22.5	
8	6998	23	
8.5	6462	23.5	
9	5844	24	
9.5	5835	24.5	
10	5811	25	
10.5	6106	25.5	
11	6526	26	
11.5	7258	26.5	
12	8502	27	
12.5	7830	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 7, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,372

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-33
Maximum Depth 13 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5778	15.5	
1	7636	16	
1.5	6139	16.5	
2	5657	17	
2.5	5059	17.5	
3	8622	18	
3.5	12,816	18.5	
4	12,497	19	
4.5	9553	19.5	
5	7628	20	
5.5	6425	20.5	
6	6461	21	
6.5	6942	21.5	
7	7699	22	
7.5	8216	22.5	
8	7054	23	
8.5	5851	23.5	
9	5256	24	
9.5	5032	24.5	
10	5273	25	
10.5	5566	25.5	
11	5727	26	
11.5	5906	26.5	
12	5934	27	
12.5	6441	27.5	
13	6629	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 7, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,372

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-34
 Maximum Depth 12 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5031	15.5	
1	6064	16	
1.5	5270	16.5	
2	6082	17	
2.5	5905	17.5	
3	6787	18	
3.5	8711	18.5	
4	11,431	19	
4.5	13,234	19.5	
5	7745	20	
5.5	5703	20.5	
6	5310	21	
6.5	5615	21.5	
7	6628	22	
7.5	6467	22.5	
8	5832	23	
8.5	5692	23.5	
9	5859	24	
9.5	6235	24.5	
10	5819	25	
10.5	5434	25.5	
11	5758	26	
11.5	6197	26.5	
12	6666	27	
12.5	7249	27.5	
12.10	7619	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 7, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,372

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-35

Maximum Depth 11 feet 9 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5216	15.5	
1	4864	16	
1.5	2915	16.5	
2	3911	17	
2.5	5551	17.5	
3	6231	18	
3.5	6091	18.5	
4	5304	19	
4.5	5794	19.5	
5	5807	20	
5.5	5344	20.5	
6	5020	21	
6.5	5500	21.5	
7	6624	22	
7.5	6852	22.5	
8	6165	23	
8.5	6224	23.5	
9	7054	24	
9.5	7378	24.5	
10	7656	25	
10.5	7500	25.5	
11	6280	26	
11.5	5436	26.5	
11.9	5352	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 7, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,372

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-36

Maximum Depth 12 feet 9 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3810	15.5	
1	4288	16	
1.5	4351	16.5	
2	4757	17	
2.5	5412	17.5	
3	5048	18	
3.5	5287	18.5	
4	4839	19	
4.5	4677	19.5	
5	4579	20	
5.5	4496	20.5	
6	4407	21	
6.5	4626	21.5	
7	4519	22	
7.5	4114	22.5	
8	3590	23	
8.5	3750	23.5	
9	4241	24	
9.5	4821	24.5	
10	5159	25	
10.5	5002	25.5	
11	5692	26	
11.5	5841	26.5	
12	5513	27	
12.5	6015	27.5	
12.9	5942	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 7, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,372

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-37

Maximum Depth 13 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3451	15.5	
1	3465	16	
1.5	3655	16.5	
2	4578	17	
2.5	7210	17.5	
3	8364	18	
3.5	7910	18.5	
4	7444	19	
4.5	6461	19.5	
5	5058	20	
5.5	4301	20.5	
6	4582	21	
6.5	4549	21.5	
7	4697	22	
7.5	4392	22.5	
8	4572	23	
8.5	6176	23.5	
9	8135	24	
9.5	8690	24.5	
10	8469	25	
10.5	8085	25.5	
11	8084	26	
11.5	7803	26.5	
12	7477	27	
12.5	7326	27.5	
13	7116	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

**Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH**

Date: January 7, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,372

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =
18,059 counts per 30 sec.

* Shielded (2")

Boring No.: E-38

Maximum Depth 13 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4443	15.5	
1	4394	16	
1.5	4575	16.5	
2	5709	17	
2.5	7033	17.5	
3	7523	18	
3.5	7768	18.5	
4	8923	19	
4.5	9810	19.5	
5	9836	20	
5.5	9660	20.5	
6	8139	21	
6.5	7486	21.5	
7	7428	22	
7.5	7849	22.5	
8	7861	23	
8.5	8102	23.5	
9	8030	24	
9.5	7761	24.5	
10	7203	25	
10.5	7580	25.5	
11	7529	26	
11.5	7532	26.5	
12	8913	27	
12.5	8272	27.5	
13	5447	28	
13.5	4199	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 7, 2002

Technician: Charles Brown

Instrument Model No.: Ludlum 2221

Operational Check: 2,200

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: E-39

Maximum Depth 11 feet 7 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2927	15.5	
1	3385	16	
1.5	3616	16.5	
2	4043	17	
2.5	3774	17.5	
3	3701	18	
3.5	3687	18.5	
4	3326	19	
4.5	3367	19.5	
5	4343	20	
5.5	4587	20.5	
6	4334	21	
6.5	4163	21.5	
7	3997	22	
7.5	3978	22.5	
8	4232	23	
8.5	4067	23.5	
9	4167	24	
9.5	5445	24.5	
10	4138	25	
10.5	3493	25.5	
11	3232	26	
11.5	3708	26.5	
11.7	3560	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 7, 2002

Technician: Charles Brown

Instrument Model No.: Ludlum 2221

Operational Check: 2,200

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =
 15,894 counts per 30 sec.

* Shielded (1")

Boring No.: E-40
 Maximum Depth 11 feet 2 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2930	15.5	
1	3557	16	
1.5	3582	16.5	
2	3463	17	
2.5	3859	17.5	
3	4223	18	
3.5	4378	18.5	
4	4528	19	
4.5	4197	19.5	
5	4058	20	
5.5	3875	20.5	
6	4038	21	
6.5	3649	21.5	
7	3399	22	
7.5	3137	22.5	
8	3134	23	
8.5	3151	23.5	
9	3248	24	
9.5	3213	24.5	
10	3523	25	
10.5	3640	25.5	
11	3464	26	
11.2	3544	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 7, 2002

Technician: Charles Brown

Instrument Model No.: Ludlum 2221

Operational Check: 2,200

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: E-41
Maximum Depth 11 feet 7 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2573	15.5	
1	2497	16	
1.5	2648	16.5	
2	4216	17	
2.5	4242	17.5	
3	4173	18	
3.5	4446	18.5	
4	5023	19	
4.5	5467	19.5	
5	5438	20	
5.5	5147	20.5	
6	4921	21	
6.5	4365	21.5	
7	4009	22	
7.5	3639	22.5	
8	3486	23	
8.5	3098	23.5	
9	2905	24	
9.5	2781	24.5	
10	3175	25	
10.5	3639	25.5	
11	4211	26	
11.5	4509	26.5	
11.7	4500	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 7, 2002

Technician: Charles Brown

Instrument Model No.: Ludlum 2221

Operational Check: 2,200

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =
15,894 counts per 30 sec.

* Shielded (1")

Boring No.: E-42

Maximum Depth 11 feet 11 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2713	15.5	
1	3018	16	
1.5	3143	16.5	
2	2782	17	
2.5	2555	17.5	
3	3235	18	
3.5	3944	18.5	
4	3975	19	
4.5	3518	19.5	
5	3482	20	
5.5	3427	20.5	
6	3598	21	
6.5	3442	21.5	
7	3590	22	
7.5	4102	22.5	
8	4209	23	
8.5	4209	23.5	
9	4103	24	
9.5	4445	24.5	
10	4031	25	
10.5	3519	25.5	
11	3367	26	
11.5	3389	26.5	
11.11	3223	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 7, 2002

Technician: Charles Brown

Instrument Model No.: Ludlum 2221

Operational Check: 2,200

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: E-43
Maximum Depth 11 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3020	15.5	
1	4133	16	
1.5	3608	16.5	
2	3631	17	
2.5	3453	17.5	
3	3589	18	
3.5	3598	18.5	
4	3522	19	
4.5	3704	19.5	
5	3850	20	
5.5	3592	20.5	
6	3439	21	
6.5	3412	21.5	
7	3248	22	
7.5	3201	22.5	
8	3038	23	
8.5	2837	23.5	
9	2943	24	
9.5	2973	24.5	
10	2919	25	
10.5	2835	25.5	
11	2631	26	
11.5	2458	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 7, 2002

Technician: Charles Brown

Instrument Model No.: Ludlum 2221

Operational Check: 2,200

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: E-44
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3482	15.5	
1	4194	16	
1.5	4424	16.5	
2	4391	17	
2.5	4529	17.5	
3	4258	18	
3.5	3914	18.5	
4	4290	19	
4.5	4201	19.5	
5	3982	20	
5.5	4771	20.5	
6	3716	21	
6.5	3533	21.5	
7	3896	22	
7.5	4253	22.5	
8	3694	23	
8.5	3413	23.5	
9	3158	24	
9.5	2943	24.5	
10	2769	25	
10.5	2821	25.5	
11	2915	26	
11.5	2802	26.5	
12	2653	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 8, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,043

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-45
Maximum Depth 11 feet 11 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4674	15.5	
1	5206	16	
1.5	6081	16.5	
2	6022	17	
2.5	5663	17.5	
3	5044	18	
3.5	4139	18.5	
4	3518	19	
4.5	3533	19.5	
5	3671	20	
5.5	3546	20.5	
6	3457	21	
6.5	3539	21.5	
7	3512	22	
7.5	3471	22.5	
8	3318	23	
8.5	3373	23.5	
9	2927	24	
9.5	3022	24.5	
10	2758	25	
10.5	2931	25.5	
11	2997	26	
11.5	3114	26.5	
11.11	2966	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 8, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,043

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =
 18,059 counts per 30 sec.

* Shielded (2")

Boring No.: E-46
 Maximum Depth 11 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3558	15.5	
1	3822	16	
1.5	3705	16.5	
2	3709	17	
2.5	3663	17.5	
3	3672	18	
3.5	3543	18.5	
4	3313	19	
4.5	3314	19.5	
5	3139	20	
5.5	2842	20.5	
6	2708	21	
6.5	2822	21.5	
7	2845	22	
7.5	2896	22.5	
8	2860	23	
8.5	3007	23.5	
9	3060	24	
9.5	3245	24.5	
10	3480	25	
10.5	3990	25.5	
11	3694	26	
11.5		26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log
Project No. 32193ZH

Date: January 16, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,214

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-47
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5299	15.5	
1	4714	16	
1.5	4833	16.5	
2	3539	17	
2.5	4109	17.5	
3	4086	18	
3.5	3374	18.5	
4	3105	19	
4.5	3162	19.5	
5	3802	20	
5.5	5107	20.5	
6	5899	21	
6.5	5364	21.5	
7	5800	22	
7.5	6262	22.5	
8	5939	23	
8.5	6498	23.5	
9	7758	24	
9.5	7120	24.5	
10	6160	25	
10.5	5444	25.5	
11	4961	26	
11.5	4717	26.5	
12	4565	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

**Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH**

Date: January 8, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,043

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =
18,059 counts per 30 sec.

* Shielded (2")

Boring No.: E-48
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4943	15.5	
1	6634	16	
1.5	9890	16.5	
2	7069	17	
2.5	4500	17.5	
3	4003	18	
3.5	4733	18.5	
4	4422	19	
4.5	6630	19.5	
5	5988	20	
5.5	6336	20.5	
6	7477	21	
6.5	7928	21.5	
7	7154	22	
7.5	4500	22.5	
8	3054	23	
8.5	2755	23.5	
9	2749	24	
9.5	2748	24.5	
10	2599	25	
10.5	2633	25.5	
11	2651	26	
11.5	2826	26.5	
12	3167	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 8, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,043

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-49

Maximum Depth 11 feet 10 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4356	15.5	
1	4647	16	
1.5	4061	16.5	
2	4682	17	
2.5	4877	17.5	
3	4626	18	
3.5	5381	18.5	
4	4785	19	
4.5	4401	19.5	
5	5295	20	
5.5	5636	20.5	
6	4959	21	
6.5	4544	21.5	
7	5003	22	
7.5	5692	22.5	
8	6733	23	
8.5	7614	23.5	
9	8019	24	
9.5	7773	24.5	
10	6367	25	
10.5	4943	25.5	
11	3602	26	
11.5	2997	26.5	
11.10	2856	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 8, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,043

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-50
 Maximum Depth 12 feet 2 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4100	15.5	
1	4547	16	
1.5	3592	16.5	
2	3525	17	
2.5	3374	17.5	
3	4539	18	
3.5	6120	18.5	
4	6806	19	
4.5	7172	19.5	
5	8415	20	
5.5	8585	20.5	
6	8373	21	
6.5	8323	21.5	
7	8143	22	
7.5	7656	22.5	
8	7377	23	
8.5	6707	23.5	
9	6052	24	
9.5	6104	24.5	
10	5661	25	
10.5	5378	25.5	
11	5032	26	
11.5	4711	26.5	
12	4744	27	
12.2	4709	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 8, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,043

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-51
Maximum Depth 12 feet 2 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4325	15.5	
1	4788	16	
1.5	5010	16.5	
2	4854	17	
2.5	3765	17.5	
3	4004	18	
3.5	6987	18.5	
4	7426	19	
4.5	7438	19.5	
5	7093	20	
5.5	6950	20.5	
6	7455	21	
6.5	7924	21.5	
7	7609	22	
7.5	6591	22.5	
8	6208	23	
8.5	5298	23.5	
9	4631	24	
9.5	5063	24.5	
10	6275	25	
10.5	8121	25.5	
11	9556	26	
11.5	8981	26.5	
12	7389	27	
12.2	6897	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 8, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,043

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-52

Maximum Depth 12 feet 11 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3969	15.5	
1	4611	16	
1.5	5027	16.5	
2	5019	17	
2.5	4944	17.5	
3	6066	18	
3.5	6237	18.5	
4	6352	19	
4.5	6989	19.5	
5	8637	20	
5.5	7847	20.5	
6	7607	21	
6.5	6499	21.5	
7	5768	22	
7.5	7164	22.5	
8	8326	23	
8.5	7285	23.5	
9	5795	24	
9.5	5007	24.5	
10	4724	25	
10.5	4777	25.5	
11	4963	26	
11.5	5682	26.5	
12	6967	27	
12.5	7570	27.5	
12.11	7836	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 8, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20,043

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-53
Maximum Depth 12 feet 4 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4397	15.5	
1	4948	16	
1.5	4702	16.5	
2	4583	17	
2.5	4257	17.5	
3	4251	18	
3.5	4287	18.5	
4	4244	19	
4.5	3823	19.5	
5	4248	20	
5.5	6633	20.5	
6	6590	21	
6.5	4548	21.5	
7	4850	22	
7.5	5533	22.5	
8	6230	23	
8.5	5933	23.5	
9	5188	24	
9.5	4924	24.5	
10	5225	25	
10.5	6343	25.5	
11	6313	26	
11.5	6399	26.5	
12	6958	27	
12.4	6867	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 18, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,921

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: E-54
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2824	15.5	
1	4364	16	
1.5	4329	16.5	
2	4149	17	
2.5	4321	17.5	
3	5383	18	
3.5	5732	18.5	
4	4938	19	
4.5	4030	19.5	
5	3697	20	
5.5	4612	20.5	
6	5766	21	
6.5	6092	21.5	
7	6869	22	
7.5	6709	22.5	
8	5668	23	
8.5	4426	23.5	
9	4174	24	
9.5	4059	24.5	
10	4151	25	
10.5	4300	25.5	
11	5300	26	
11.5	6684	26.5	
12	7820	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log
Project No. 32193ZH

Date: January 18, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,921

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: E-55
Maximum Depth 12 feet 2 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3468	15.5	
1	4518	16	
1.5	4924	16.5	
2	4551	17	
2.5	5042	17.5	
3	6259	18	
3.5	6466	18.5	
4	7418	19	
4.5	7972	19.5	
5	7274	20	
5.5	6355	20.5	
6	4793	21	
6.5	3830	21.5	
7	3337	22	
7.5	4322	22.5	
8	5457	23	
8.5	5993	23.5	
9	6031	24	
9.5	6082	24.5	
10	6964	25	
10.5	7290	25.5	
11	7379	26	
11.5	7296	26.5	
12	6615	27	
12.2	6493	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 18, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,921

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =
 15,894 counts per 30 sec.

* Shielded (1")

Boring No.: E-56
 Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	6135	15.5	
1	5519	16	
1.5	6217	16.5	
2	7974	17	
2.5	7147	17.5	
3	7377	18	
3.5	7913	18.5	
4	9356	19	
4.5	12,587	19.5	
5	24,581	20	
5.5	62,098	20.5	
6	129,630	21	
6.5	41,346	21.5	
7	14,574	22	
7.5	7194	22.5	
8	4804	23	
8.5	4284	23.5	
9	4434	24	
9.5	4539	24.5	
10	5032	25	
10.5	4676	25.5	
11	6561	26	
11.5	6467	26.5	
12	5358	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 21, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =
15,894 counts per 30 sec.

* Shielded (1")

Boring No.: E-56A
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5690	15.5	
1	5691	16	
1.5	6189	16.5	
2	6556	17	
2.5	7512	17.5	
3	8735	18	
3.5	9818	18.5	
4	10,432	19	
4.5	13,716	19.5	
5	24,070	20	
5.5	57,444	20.5	
6	157,607	21	
6.5	273,156	21.5	
7	119,755	22	
7.5	39,549	22.5	
8	25,419	23	
8.5	30,354	23.5	
9	12,592	24	
9.5	7267	24.5	
10	5431	25	
10.5	5031	25.5	
11	5032	26	
11.5	5274	26.5	
12	5711	27	
12.5	6141	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 21, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20013

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: (E-56) B
Maximum Depth 11 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	5663	15.5	
1	4697	16	
1.5	4681	16.5	
2	4665	17	
2.5	5611	17.5	
3	6669	18	
3.5	7619	18.5	
4	7691	19	
4.5	10,127	19.5	
5	12,958	20	
5.5	8731	20.5	
6	6941	21	
6.5	7476	21.5	
7	8372	22	
7.5	8408	22.5	
8	8338	23	
8.5	6737	23.5	
9	6644	24	
9.5	5894	24.5	
10	5161	25	
10.5	4994	25.5	
11	3691	26	
11.5	3022	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 21, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20013

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: (E-56) C
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4338	15.5	
1	4665	16	
1.5	5487	16.5	
2	6883	17	
2.5	9182	17.5	
3	10,173	18	
3.5	9649	18.5	
4	8334	19	
4.5	6403	19.5	
5	6406	20	
5.5	6057	20.5	
6	4804	21	
6.5	4614	21.5	
7	4801	22	
7.5	4729	22.5	
8	4317	23	
8.5	4857	23.5	
9	6212	24	
9.5	5854	24.5	
10	6036	25	
10.5	5454	25.5	
11	5481	26	
11.5	5079	26.5	
12	5284	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 21, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 20013

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: (E-56) D
Maximum Depth 13 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3083	15.5	
1	4355	16	
1.5	4677	16.5	
2	4811	17	
2.5	4855	17.5	
3	5888	18	
3.5	6542	18.5	
4	6508	19	
4.5	6587	19.5	
5	6584	20	
5.5	6936	20.5	
6	5923	21	
6.5	6239	21.5	
7	6909	22	
7.5	6771	22.5	
8	6482	23	
8.5	6463	23.5	
9	6312	24	
9.5	6565	24.5	
10	6568	25	
10.5	6048	25.5	
11	6699	26	
11.5	6706	26.5	
12	5978	27	
12.5	5607	27.5	
13	5667	28	
13.5	5673	28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 21, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: E-56E
Maximum Depth 13 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3170	15.5	
1	5198	16	
1.5	5679	16.5	
2	5552	17	
2.5	4940	17.5	
3	5031	18	
3.5	6221	18.5	
4	6356	19	
4.5	6534	19.5	
5	6597	20	
5.5	5758	20.5	
6	4833	21	
6.5	5294	21.5	
7	5177	22	
7.5	5733	22.5	
8	6087	23	
8.5	6027	23.5	
9	5696	24	
9.5	5519	24.5	
10	5513	25	
10.5	4581	25.5	
11	4171	26	
11.5	3879	26.5	
12	2975	27	
12.5	2683	27.5	
13	2654	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 18, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,921

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: E-57
Maximum Depth 12 feet 1 inch

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2612	15.5	
1	2743	16	
1.5	3275	16.5	
2	3886	17	
2.5	4190	17.5	
3	4379	18	
3.5	5680	18.5	
4	6511	19	
4.5	7696	19.5	
5	10,004	20	
5.5	10,787	20.5	
6	10,442	21	
6.5	9266	21.5	
7	8570	22	
7.5	8220	22.5	
8	7884	23	
8.5	7412	23.5	
9	7186	24	
9.5	7270	24.5	
10	7197	25	
10.5	6351	25.5	
11	5648	26	
11.5	6318	26.5	
12	6715	27	
12.1	6824	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 18, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,921

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: E-58
Maximum Depth 12 feet 9 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3363	15.5	
1	4909	16	
1.5	5973	16.5	
2	5765	17	
2.5	5719	17.5	
3	4839	18	
3.5	4719	18.5	
4	4257	19	
4.5	3660	19.5	
5	3123	20	
5.5	4212	20.5	
6	5077	21	
6.5	5710	21.5	
7	5879	22	
7.5	6821	22.5	
8	7976	23	
8.5	8089	23.5	
9	7074	24	
9.5	5384	24.5	
10	3666	25	
10.5	2854	25.5	
11	2692	26	
11.5	2567	26.5	
12	2769	27	
12.5	2909	27.5	
12.9	2842	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 18, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,921

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: E-59
Maximum Depth 11 feet 8 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2629	15.5	
1	4127	16	
1.5	4698	16.5	
2	4751	17	
2.5	4699	17.5	
3	4787	18	
3.5	4257	18.5	
4	3617	19	
4.5	5671	19.5	
5	5299	20	
5.5	5596	20.5	
6	5501	21	
6.5	4934	21.5	
7	4196	22	
7.5	3384	22.5	
8	2838	23	
8.5	2497	23.5	
9	2860	24	
9.5	3272	24.5	
10	4025	25	
10.5	4439	25.5	
11	4090	26	
11.5	3422	26.5	
11.8	3018	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log
Project No. 32193ZH

Date: January 18, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,921

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: E-60
Maximum Depth 11 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3013	15.5	
1	4191	16	
1.5	4291	16.5	
2	3800	17	
2.5	4178	17.5	
3	5527	18	
3.5	5984	18.5	
4	6340	19	
4.5	6545	19.5	
5	6266	20	
5.5	6116	20.5	
6	7910	21	
6.5	8070	21.5	
7	6442	22	
7.5	5794	22.5	
8	5801	23	
8.5	6413	23.5	
9	6630	24	
9.5	6164	24.5	
10	5679	25	
10.5	5381	25.5	
11	5275	26	
11.5	5083	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 18, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,921

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: E-61
Maximum Depth 11 feet 8 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2872	15.5	
1	4287	16	
1.5	4882	16.5	
2	4765	17	
2.5	5861	17.5	
3	7460	18	
3.5	8645	18.5	
4	7972	19	
4.5	7137	19.5	
5	6940	20	
5.5	7197	20.5	
6	7709	21	
6.5	6893	21.5	
7	7641	22	
7.5	6136	22.5	
8	5257	23	
8.5	4714	23.5	
9	5831	24	
9.5	5325	24.5	
10	3814	25	
10.5	3906	25.5	
11	4495	26	
11.5	5256	26.5	
11.8	5296	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 18, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,921

Serial No: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: E-62
Maximum Depth 11 feet 3 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2535	15.5	
1	3923	16	
1.5	4859	16.5	
2	4721	17	
2.5	5210	17.5	
3	6292	18	
3.5	6595	18.5	
4	6504	19	
4.5	6929	19.5	
5	7302	20	
5.5	7374	20.5	
6	6588	21	
6.5	5089	21.5	
7	4048	22	
7.5	4452	22.5	
8	6020	23	
8.5	6572	23.5	
9	6958	24	
9.5	5817	24.5	
10	6026	25	
10.5	5517	25.5	
11	5224	26	
11.5	5828	26.5	
11.11	5940	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 18, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: E-63
Maximum Depth 12 feet 5 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2623	15.5	
1	3823	16	
1.5	5409	16.5	
2	5452	17	
2.5	5546	17.5	
3	4965	18	
3.5	5430	18.5	
4	5296	19	
4.5	3699	19.5	
5	4760	20	
5.5	7765	20.5	
6	7492	21	
6.5	7463	21.5	
7	6468	22	
7.5	5839	22.5	
8	5849	23	
8.5	6147	23.5	
9	6289	24	
9.5	5827	24.5	
10	5299	25	
10.5	4637	25.5	
11	4470	26	
11.5	4434	26.5	
12	4701	27	
12.5	5200	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 18, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: E-64
Maximum Depth 13 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2799	15.5	
1	4769	16	
1.5	4851	16.5	
2	4988	17	
2.5	4067	17.5	
3	3423	18	
3.5	4345	18.5	
4	4443	19	
4.5	3295	19.5	
5	3416	20	
5.5	3998	20.5	
6	4917	21	
6.5	6784	21.5	
7	5975	22	
7.5	5539	22.5	
8	6272	23	
8.5	6729	23.5	
9	6118	24	
9.5	5561	24.5	
10	5717	25	
10.5	7276	25.5	
11	8196	26	
11.5	8438	26.5	
12	8660	27	
12.5	8800	27.5	
13	8702	28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 18, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: E-65
 Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2672	15.5	
1	4850	16	
1.5	5451	16.5	
2	5286	17	
2.5	5653	17.5	
3	5515	18	
3.5	5501	18.5	
4	6103	19	
4.5	6767	19.5	
5	6800	20	
5.5	6929	20.5	
6	6740	21	
6.5	5801	21.5	
7	4551	22	
7.5	4004	22.5	
8	4910	23	
8.5	4689	23.5	
9	5356	24	
9.5	5623	24.5	
10	6332	25	
10.5	5916	25.5	
11	5469	26	
11.5	5703	26.5	
12	5778	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site

Down Hole Field Log

Project No. 32193ZH

Date: January 18, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19921

Serial No.: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-66
Maximum Depth 11 feet 3 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	4104	15.5	
1	3696	16	
1.5	3883	16.5	
2	4536	17	
2.5	5710	17.5	
3	6437	18	
3.5	7195	18.5	
4	7491	19	
4.5	6932	19.5	
5	7278	20	
5.5	7343	20.5	
6	7498	21	
6.5	7254	21.5	
7	7032	22	
7.5	6848	22.5	
8	7563	23	
8.5	7209	23.5	
9	6968	24	
9.5	6053	24.5	
10	4968	25	
10.5	5376	25.5	
11	5140	26	
11.3	5185	26.5	
12		27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 18, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: E-67
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2980	15.5	
1	4441	16	
1.5	4589	16.5	
2	4244	17	
2.5	4330	17.5	
3	5287	18	
3.5	6247	18.5	
4	5908	19	
4.5	5420	19.5	
5	6004	20	
5.5	7364	20.5	
6	8451	21	
6.5	7918	21.5	
7	7155	22	
7.5	7059	22.5	
8	7246	23	
8.5	7913	23.5	
9	7907	24	
9.5	6406	24.5	
10	6183	25	
10.5	5387	25.5	
11	6066	26	
11.5	5986	26.5	
12	5704	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 18, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,921

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-68
Maximum Depth 12 feet 3 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3025	15.5	
1	4299	16	
1.5	4640	16.5	
2	4606	17	
2.5	4966	17.5	
3	4907	18	
3.5	6266	18.5	
4	6341	19	
4.5	5558	19.5	
5	4956	20	
5.5	4016	20.5	
6	3873	21	
6.5	3999	21.5	
7	4824	22	
7.5	5481	22.5	
8	4736	23	
8.5	4276	23.5	
9	4589	24	
9.5	5093	24.5	
10	5906	25	
10.5	4392	25.5	
11	3418	26	
11.5	3661	26.5	
12	3102	27	
12.3	2877	27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 18, 2002

Technician: Dumas

Instrument Model No.: Ludlum 2221

Operational Check: 28,000

Serial No.: 176944

Probe Model No.: PR 44-10

Serial No.: 182346

Cutoff Value = 7.2 pCi/gm =

* Shielded (1")

15,894 counts per 30 sec.

Boring No.: E-69
Maximum Depth 12 feet

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	2775	15.5	
1	3773	16	
1.5	4424	16.5	
2	4765	17	
2.5	6044	17.5	
3	5959	18	
3.5	6052	18.5	
4	5424	19	
4.5	5101	19.5	
5	4892	20	
5.5	4575	20.5	
6	4588	21	
6.5	4635	21.5	
7	4664	22	
7.5	4476	22.5	
8	4474	23	
8.5	3821	23.5	
9	3166	24	
9.5	2941	24.5	
10	2800	25	
10.5	2599	25.5	
11	2634	26	
11.5	2701	26.5	
12	2796	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Lakeshore East Site
Down Hole Field Log
Project No. 32193ZH

Date: January 18, 2002

Technician: Toby Shewan

Instrument Model No.: Ludlum 2221

Operational Check: 19,921

Serial No: 132844

Probe Model No.: PR 44-10

Serial No.: 168144

Cutoff Value = 7.2 pCi/gm =

* Shielded (2")

18,059 counts per 30 sec.

Boring No.: E-70
Maximum Depth 11 feet 11 inches

Depth - FEET	Counts per 30 Seconds	Depth - FEET	Counts per 30 Seconds
0.5	3750	15.5	
1	5374	16	
1.5	5780	16.5	
2	5603	17	
2.5	5680	17.5	
3	5309	18	
3.5	5103	18.5	
4	7299	19	
4.5	8364	19.5	
5	6885	20	
5.5	5912	20.5	
6	6493	21	
6.5	7005	21.5	
7	7563	22	
7.5	7298	22.5	
8	6961	23	
8.5	6688	23.5	
9	6493	24	
9.5	7448	24.5	
10	7706	25	
10.5	7503	25.5	
11	6664	26	
11.5	8281	26.5	
11.11	9105	27	
12.5		27.5	
13		28	
13.5		28.5	
14		29	
14.5		29.5	
15		30	

Attachment C**Impacted Soil Locations GPS Station References**

Attachment C

GPS Coordinates of Impacted Borings
Downhole Logging

D-34	N-4637400.9	E-448771.2
D-10	N-4637400.4	E-448804.2
D-94	N-4637425.6	E-448808.5
D-125	N-4637436.2	E-448898.3
D-71	N-4637414.2	E-448869.9
D-77	N-4637412.8	E-448923.3
E-56	N-4637271.3	E-448874.9

GPS Coordinates of the Impacted Areas, Surface Survey (September 19, 2001)

SS.5-50.5	N-4637456.9	E-448830.8	QQ-66	N-4637441.9	E-448900.8
OO.5-52	N-4637486.1	E-448826.0	H-45	N-4637262.8	E-448819.1
PP.5-59	N-4637441.3	E-448863.7	G-51	N-4637271.0	E-448825.9
MM-66	N-4637425.5	E-448893.9	LL-59	N-4637423.5	E-448864.9

